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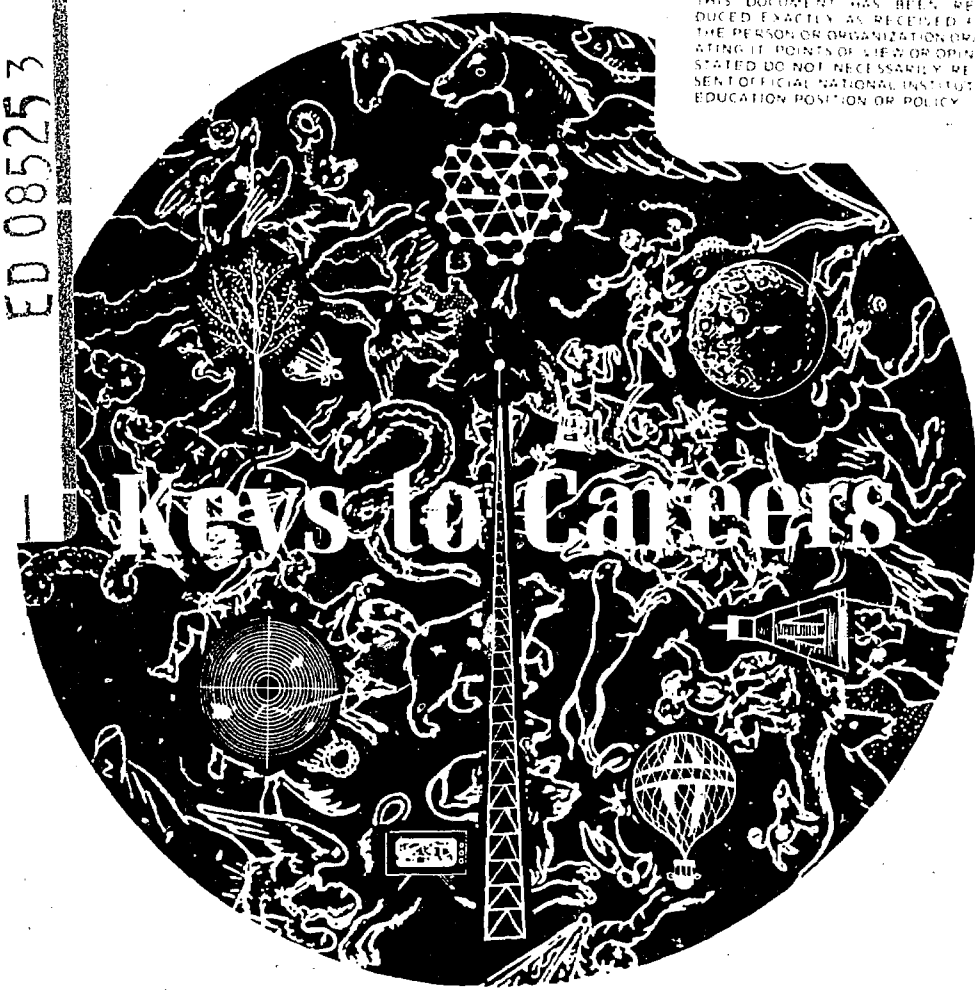

N SCIENCE & TECHNOLOGY

1973 EDITION

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Keys to Careers

IN SCIENCE AND TECHNOLOGY

1973 EDITION

Compiled by
Sandra D. Grimm

NATIONAL SCIENCE TEACHERS ASSOCIATION

WASHINGTON, D.C.

FOREWORD

Career alternatives in the realm of science and technology are wide ranging and ever-expanding. What does the future hold? How can the long range future of a career be evaluated? What preparation will be required? This bibliography is designed to inform students and teachers about career guidance literature that attempt to answer these and other pertinent questions.

The components which comprise a given career are as varied as the characteristics of a person. Discussions with parents, friends, teachers, and counselors can provide initial guidance along with pamphlets, films, and bulletin board displays. Once interest is aroused active participation in a science research project and in school career programs can help develop appropriate skills, and aid in evaluation of talents. A personal dimension to career education can come through interaction with scientists and engineers of local industries, research laboratories, government agencies, colleges and universities, and public utilities and tours of these facilities. These tangible experiences can help students gain a sound perspective of the demands and the rewards of a particular field.

Likewise, assessing your personality and talents and preparing yourself through education and experience is most desirable. Universities, professional organizations, businesses, and government agencies recognize the need to help students in making career choices. Consequently, special programs, services, incentives through awards and scholarships, and financial aids are available from a number of sources to help students realize their full potential.

This bibliography, as well as the Reader's Guide to Periodical Literature and the library card catalog, should lead to many sources of career information in an array of scientific fields. We hope this list will aid students in evaluating the various careers.

Additions and suggestions that would make *Keys to Careers* more useful will be welcomed by the NSTA staff.

Robert L. Silber, *Executive Director*
National Science Teachers Association

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INTRODUCTION

THE USE OF THIS BOOK

Each career pamphlet or book is listed individually. Pamphlets or books which specifically list career opportunities for those with a high school diploma are designated with an asterisk. Where no price is given, single copies are free. Quantity prices are listed in some cases.

The title of each publication is followed by the name of the association or company or school that provides it. The addresses for these begin on page 65. Many titles under a particular category are the same or very similar. Often an organization may publish several pamphlets in its area of interest, so it is important to be specific when requesting copies of these booklets.

YOUR REQUEST SHOULD INCLUDE:

The complete name and address of the organization, including sections and departments, where given (Government publications should be ordered from the U.S. Government Printing Office unless they are free, in which case they are distributed by the agency listed, such as the Forest Service.)

The exact title of the pamphlet or book and other important information where available

The number of copies wanted

Check or money order, even for small amounts

Mention that you read about the publication in *Keys to Careers in Science and Technology*—1973 Edition.

THEN WHAT HAPPENS?

As you read and study the career booklets, you will be able to begin planning for your educational and professional goals. Discuss the booklets you read and the plans you are making with your parents, friends, science teacher, and guidance counselor. What information do you find most useful to you? Least applicable? If you were writing career pamphlets, what information would you include? If you were a science teacher, how would you interest your students in science or science teaching as a career? Write to NSTA's Associate Executive Secretary for Professional Activities with your ideas about science career pamphlets.

CAREER GUIDANCE PUBLICATIONS

GENERAL

ALL SCIENCE CAREERS

Can I Be a Scientist? — Public Relations Staff, General Motors Corporation

Considerations of a scientific career, background required, and opportunities.

Can I Get the Job?* — General Motors

Written for high school seniors, this booklet treats the problems of self-analysis, job selection, organizing a job-hunting campaign and the employment interview.

Career Briefs — Careers (Largo, Florida)

Various titles of interest to the prospective scientist. A free list of the titles is available. 35 cents each, quantity price on request. Career summaries, 20 cents each.

Careers and Opportunities in Science — Philip Pollack, E.P. Dutton & Company, Inc.

Opening with a broad survey of the impact of science upon our lives, the author shows the career opportunities in many fields of science. $4.95.

Careers in Science and Engineering — Civil Service Commission

Basic information for people desiring jobs in these fields with the federal government. 8 pp.

Counselor's Information Service — B'nai B'rith Career and Counseling Services

An annotated bibliography, published quarterly, of current literature on educational and vocational guidance. Year's subscription, $7. 24 pp.

Dictionary of Occupational Titles — Volumes 1 and 2 — Government Printing Office

A reference of value to school libraries and counseling and placement offices. V.1 — $9.40 and V.2 — $6.75, respectively. Conversion tables, supplements, and training manual on the use of the D.O.T. are also available.

Engineers, Scientists, and Related Professions in Mathematics and Statistics — Civil Service Commission

Information about entrance levels GS-5 and GS-7. Briefly describes the careers and requirements for these professions.

*Pamphlets or books which specifically list career opportunities for those with a high school diploma.

Federal Career Directory, A Guide for College Students — Government Printing Office

Includes a commentary on federal employment in general, a word-and-picture story of the work of federal agencies and job descriptions of the major federal career occupations. 1972. $2.35.

Federal Careers for Technicians in Engineering and Physical Science — U.S. Civil Service Commission

Specific careers and the who, what, when, where, why, and how of applying for federal positions.

Graduate & Professional School Opportunities for Minority Students — Special Services Section, Educational Testing Service

Presents information on educational opportunities in 700 graduate and professional schools. Listings give such facts as person to contact, application fee, tests used, application dates for admission and for aid, number of students, number of minority students, and number of minority faculty members. Fourth edition. 1972-73. 120 pp.

Jobs in Science — Science Research Associates, Inc.

Physics, chemistry, biological sciences, earth sciences—a variety of jobs in each of these fields is covered in this booklet. 48 pp. $1.50 ea., net.

Jobs in Technical Work — Science Research Associates, Inc.

This booklet describes careers for technicians working in chemistry, physics, metallurgy, and other areas. 48 pp. $1.50 ea., net.

Occupational Goals for College Students, Part I: Architecture, Engineering, and the Physical Sciences and Part II: Agricultural and Related Sciences — The Ohio State University, Publications Sales Office

Facts about career prospects in these fields. Part I—96 pp. 75 cents. Part II—$1.50.

Occupational Outlook Handbook — Bulletin 1700 — Government Printing Office

Prepared by the Bureau of Labor Statistics, U.S. Department of Labor, the *Handbook* summarizes about 700 occupations and industries with data on employment trends and outlook, training and other requirements, earnings, and working conditions. 1972-73. $7.25.

Occupational Outlook Quarterly — Government Printing Office

Publication issued to provide counselors with current information on employment trends, based on the research and statistical programs of the Bureau of Labor Statistics. Supplements and brings up to date information in the *Occupational Outlook Handbook*. 45 cents per copy; $1.50 (4 issues) per year.

Occupational Outlook Reprint Series — Government Printing Office

Reprinted articles from the *Occupational Outlook Handbook*. Sets of 141 or individual items may be ordered. 10 to 15 cents each.

Occupations: Professions and Job Descriptions — Price List 33A. Government Printing Office

A booklet listing government job-guidance publications ranging upward in price from 10 cents. Emphasis on vocational guidance and counseling.

Paraprofessions — Julian Messner

Paraprofessionals in the fields of architecture, urban planning, teaching, library science, engineering, law, medicine, mental health, and forestry. 1972. $4.79.

Science and Engineering — International Business Machines Corporation

Outlines career opportunities for engineers, scientists, mathematicians, physicists, programmers, chemists, and metallurgists. Includes sections relating to IBM company products, benefits, and working environment.

Search—Science, Engineering and Related Career Hints — Scientific Manpower Commission

The sixth edition of this bibliography of science career pamphlets. April 1971. 48 pp. $1.

Selected Sources of Information on Careers in Science — Office of Education and Training, Smithsonian Institution

Sources of information are broken down into categories of general science, or specific science areas including archaeology and anthropology, astronomy, chemistry, entomology, geology, herpetology, ichthyology, mathematics, mammalogy, meteorology, museology, oceanography, pharmacology, physics, and psychology.

Sources of Career Information in Scientific Fields — Manufacturing Chemists Association

Specific sources of information from astronomy through veterinary medicine. 1971-72. 20 pp.

Test Yourself for Science — Scientific Manpower Commission

A novel career booklet to "test" a student's intersts in various fields of science — chemistry, biology, mathematics, geology, physics, and engineering. April 1971. Single copies, $1; 25 or more copies, 50 cents each.

Your Future in . . . — Richard Rosen Press

A series of over 100 books including titles such as: *Your Future in Agriculture*, *Your Future as a Physician*, *Your Future in Naval Architecture*, and many more. $3.99.

GUIDANCE

Barrons's Guide to Two-Year Colleges — Volume 1: 1230 College Descriptions — Barron's Educational Series, Inc.

A directory of accredited schools, this volume has complete information on all vocational-technical training, academic programs, and business courses. Revised 1972 Edition. $4.25 paper, $8 cloth.

Barron's Guide to Two-Year Colleges — Volume 2: Occupational Program Selector — Barron's Educational Series, Inc.

A unique reference to over 180 different programs of study at more than 1200 two-year colleges, arranged in chart format, this guide indicates most two-year schools offering programs in agriculture, applied arts, business and commerce, media, health occupations, services, and trade and technical fields. 1972. $2.50 paper, $6 cloth.

Barron's Profiles of American Colleges — Volume 1: Descriptions of the Colleges — Barron's Educational Series, Inc.

In-depth descriptions of every aspect of over 1400 colleges and universities, including educational philosophy, unique programs, admission requirements, selectivity guides, etc. Revised 8th Edition. 1972. $5.95 paper, $15 cloth.

Barron's Profiles of American Colleges — Volume 2: Index to Major Areas of Study — Barron's Educational Series, Inc.

Programs of study at over 1400 full-time, undergraduate colleges indexed according to subject matter; the majors and concentrations at each college or university are indicated; and all colleges are arranged according to their degree of selectivity and average annual cost. 1973. $4.95 paper, $9.95 cloth.

Career Counseling—Yearbook — T&I Division, American Vocational Association

Practical information and workable ideas from a team of educational authorities and authors. Order from American Technical Society. 117 pp. $3.

College Bound — Barron's Educational Series, Inc.

An encyclopedia of information for college-bound students, their parents, and guidance counselors. Revised 1971 edition. $2.95 paper, $6 cloth.

College—Yes or No? Your Future—With or Without College* — Bellman Publishing Co.

Attempts to help high school graduates find satisfactory job opportunities. Also, comments from 15 outstanding colleges and universities and 5 junior colleges that should permit a student to determine whether or not he should go to college. 1971. 28 pp. $2.95, illustrated.

Comparative Guide to American Colleges 1973-1974 — Harper & Row

Departments and programs are compared within biological sciences, chemistry, earth sciences, engineering, general science, mathematical sciences, physics, and astronomy. Admission data, aim and objectives of the programs, faculty, and output of the departments are all considered. 1973. 1183 pp. $20. Also available: *Comparative Guide to Engineering Programs*, 1972. 350 pp. $4.95; *Comparative Guide to Programs in Biological Sciences and Chemistry*, 1972. 380 pp. $4.95; *Comparative Guide to Programs in Earth Sciences, Physics and Astronomy*, 1972. 260 pp. $4.95.

Comparative Guide to American Colleges, Professional and Guidance Education, 1972-73 — Harper & Row

Directory covers accredited four-year colleges, with detailed treatment of each

school's academic quality, campus environment, admission requirements, etc. Also includes comparative descriptions of four-year programs in the visual performing and communication arts. Indexes. 864 pp. $15.

Comparative Guide to Two-Year Colleges and Four-Year Specialized Schools & Programs — Harper & Row

An authoritative guide to U.S. community colleges, junior colleges, technical institutes, and specialized schools and programs in art, dance, music, theatre, radio-tv, film. Indexes. 1969. 302 pp. $7.95; $3.50 paper.

Counseling Girls and Women: A Guide for Jewish and Other Minority Women — B'nai B'rith Career and Counseling Services

Women's position in society, the world of work, and the family is examined from a historical perspective as well as present conditions of change. The influence of attitudes, sex roles, legal discrimination, and family pattern upon employment is analyzed. New career roles of "pioneer women" are highlighted. Guidelines for educational and vocational planning, advantages of obtaining career counseling, and availability of financial assistance are discussed. The school's responsibility for providing realistic guidance to girls and women is examined. Group guidance programs are considered in terms of their value in new educational and career possibilities. Topics for discussion in women's groups are suggested. Selected bibliography is included. 1973. 48 pp. $2.

Guide for Parents and Students* — The American Legion, Educational and Scholastic Program, Department A

Suggestions to help students prepare for the future, particularly for college or vocational training. Recommends that Posts, Units, and schools obtain a copy for each high school student. $5 per thousand, prepaid. Single copy free if stamped, self-addressed #10 envelope is sent with request.

A Guide to Indexes as a Resource for Occupations and Careers — B'nai B'rith Career and Counseling Services

This annotated listing contains over 170 indexes which can be used as occupational resources. Applications for use in career education, curriculum or instructional packages are noted. Its purpose is to assist personnel in counseling, administration, and education to cover the widest scope of materials in a minimum of time. 1973. 13 pp. $1.

Guide to Professional Careers — Julian Messner

A vocational counselor covers 100 challenging professions for the college-bound student. Includes job descriptions, requirements, duties, range of earnings, prospects for newcomers. 1970. 288 pp. $5.95.

How to Prepare for College Board Achievement Tests — Barron's Educational Series, Inc.

Practice achievement tests with explanatory answers. Separate volumes in chemistry ($3.95 paper, $7.25 cloth), biology ($3.95 paper, $7 cloth), and physics ($2.25 paper, $6 cloth).

How to Prepare for the New York State Regents Scholarship Examination — Barron's Educational Series, Inc.

Concentrated preparation for the exam, with practice exercises for the review of vocabulary, English, math, social studies, science, art, music, etc. Also shows how to gain admission to a New York state college, win a Scholarship Incentive Award, a Regents Scholarship in Nursing, and others. Revised 1973 edition. $3.95 paper, $7.95 cloth.

How You Can Get a Better Job — American Technical Society

Ideas about how successful people achieve better employment through certain practical techniques. By Willard Lasher. $3.75.

Lovejoy's Career and Vocational School Guide* — Simon & Schuster, Inc.

Information about vocational schools, tips in planning and training on the basis of available opportunities. $3.95 paper, $7.95 cloth.

Lovejoy's College Guide — Simon & Schuster, Inc.

Complete guide to colleges, includes junior and two-year institutions, technical schools. Graduate school admission test information and other special features. 11th Edition. $4.95 paper, $7.50 cloth.

Nontraditional Careers for Women — Julian Messner

Covers more than 500 nontraditional occupations which offer employment opportunities to women. A timely, thorough, and valuable overview by a well-known guidance consultant and counseling psychologist. 1973. 224 pp. Cloth $5.25. Paper $4.79.

On the Job Training and Where to Get It* — Julian Messner

Emphasis on the semiskilled and skilled trades, but unskilled trades are included. Revised 1973. Cloth $4.95. Heavy duty edition $4.79.

Pathway to Your Future: The Job Resume and Letter of Application — Bellman Publishing Company

The professional way to sell yourself to a prospective employer with easy to follow directions in writing your own resume and letter of application. 1971. 33 pp. $2.75.

Present and Future Job Prospects of Engineering and Technology Graduates — Engineers Joint Council

A summary of survey highlights in attractive form for student guidance. 1972. 4 pp. $1.50.

Teachers Guide to Group Vocational Guidance — Bellman Publishing Company

Detailed lesson plans for conducting group vocational guidance to interest students in work opportunities, help students acquire needed information, provide students with an opportunity to share their vocational experience, create an awareness of the need for planning future careers, and help students make educational and vocational plans and decisions. 1971. 74 pp. $5.55.

Vocational Outlook for the 1970's and the 1980's — B'nai B'rith Career and Counseling Center

Physical, educational and psychological changes, as well as changes in family and human values are discussed as background to changes in the world of work. Employment trends are detailed. By S. Norman Feingold. 1969. 9 pp. 35 cents.

Your Career — If You're Not Going to College* — Julian Messner

Step by step directions for evaluating oneself in terms of the demands of a given occupation; how to proceed to look for and gain employment. Revised 1971. $4.79.

AGRICULTURE

Rewarding Careers in a Dynamic Industry — National Association of State Universities and Land-Grant Colleges

The booklet describes careers in farming and related fields. Available from the Dean of Agriculture at land-grant institutions in student's home state. 22 pp.

AGRICULTURAL ENGINEERING

Agricultural Engineering Career Materials — Michigan State University. Agricultural Engineering Department

A series of folders about the careers available in this important branch of engineering. Includes descriptions of typical curricula in several different areas. Titles include: *Agricultural Mechanization, Careers in Agricultural Engineering, Electrical Technology for Agriculture, Farm Equipment Service and Sales,* and *Physical Properties of Biological Materials.* Single copies free, additional copies 10 cents each except to Michigan schools.

Did You Ever Wish You Could Change the World? — American Society of Agricultural Engineers

For idealistic young men and women who seek information on careers that combine service to mankind and intellectual challenge. Summarizes educational requirements and career opportunities here and abroad for the future agricultural engineer. 1971. 16 pp. 20 cents.

Wanted: More Women Engineers in Agricultural Engineering — American Society of Agricultural Engineers

Leaflet explodes current myths about why the profession of engineering is not considered appropriate for women. Summarizes ways in which the agricultural profession can offer unique career advantages to women. A female agricultural engineering student and a female professor of agricultural engineering are quoted. Reprinted from February 1970 issue of *Agricultural Engineering.* 4 pp. 5 cents.

Women in Engineering Professions — American Society of Agricultural Engineers

Includes the views of two women agricultural engineers on why engineering is considered a challenging career for women in some areas of the world—and why engineering has not been a popular career for women in the U.S. Reprinted from October 1970 issue of *Agricultural Engineering*. 4 pp. 5 cents.

ANIMAL SCIENCE

A Career in Animal Sciences — American Society of Animal Science

Details the opportunities in the animal science field in animal production, industries which serve agriculture, food processing, research and education, the U.S. Government, and even in journalism. Preparation requirements from high school through college, lists of colleges with degree programs in animal science, expected college expenses, and potential income as an animal scientist are also included. 8 pp.

A Career in Laboratory Animal Science & Technology* — American Association for Laboratory Animal Science

Educational preparation and career description details in laboratory animal science and technology.

Careers in Poultry Science: Food for America, Know How for the World — Poultry Science Association

Basic tips on choosing a career (in any field), a description of the poultry industry and opportunities in poultry science and poultry products technology.

Poultry Science: Careers in the Dynamic Science of Today and Tomorrow — Poultry Science Association

What Texas A&M University has to offer in poultry science and the rewards of pursuing poultry science as a career.

PLANT SCIENCES

Career Opportunities in Tree Care — National Arborist Association

Duties, requirements, education and training, tools and equipment, and how to get started as an arborist.

Careers in Horticultural Sciences — Julian Messner

Tells about jobs in the branches of agriculture dealing with cultivation, plant genetics, landscaping, pest control, food processing. 1969. 224 pp. $4.29.

Careers in Plant Physiology — American Society of Plant Physiologists Training

Financial support and how to apply for graduate training in plant physiology are covered.

Develop a Career as a Professional Landscape Expert — The National Landscape Association

Duties, qualifications, education, experience, and employment opportunities in the landscaping field.

Get to Know a Garden Expert — Your Nurseryman — American Association of Nurserymen

The functions of a nurseryman.

Horticulture Career Information — American Association of Nurserymen, Inc.

Vocational Horticulture Curriculum Information, Visual Aids for Use in Vocational Horticulture Classes, and a *National Survey of Post High School Vocational Horticulture Training* are all available from the AAN.

Nursery Careers — American Association of Nurserymen, Inc.

Nursery Employee Training and *Additional Vocational Guidance Information Pertaining to the Nursery Industry* provide solid suggestions for prospective nurserymen.

Ornamental Horticulture — New Mexico Association of Nurserymen

Opportunities as nurserymen, landscape designers, salesmen, and flower growers; descriptions of facilities for teaching and research in the Horticulture Department at New Mexico State University.

SOIL SCIENCE

A Soil Science Career for You in SCS — Soil Conservation Service, U.S. Department of Agriculture

Discusses the role of the soil scientist in soil classification and mapping, soil investigation (laboratory and field), and soil survey interpretation; gives information about employment. Order from Government Printing Office. Revised 1971. 10 cents.

ANTHROPOLOGY & ARCHAEOLOGY

Archaeology As a Career — Archaeological Institute of America

J.H. Rowe describes the work and training of the archaeologist. Bibliography revised in 1970. 11 pp. Quantity prices on request.

Guide to Departments of Anthropology — American Anthropological Association

Staff listings, fields of specialization, and number of courses offered in anthropology. Published annually. $4 prepaid.

On Becoming an Anthropologist — American Anthropological Association

Pamphlet for students. 1970. 11 pp. 25 cents.

What is Anthropology? — American Anthropological Association

Defines anthropology and discusses qualifications and rewards of the profession. Also lists selected books about anthropology and anthropologists. 1970. 5 pp.

ARCHITECTURE

Environment 70's — American Institute of Landscape Architects

Career information on the profession of landscape architecture. 4 pp.

Introduction to Curriculum, School of Landscape Architecture — Syracuse University

Curriculum information and description of the profession of landscape architecture.

Landscape Architecture: a professional career in land planning — American Society of Landscape Architects

Discusses aptitude, school preparation, college training, job training, employment opportunities, colleges and universities, how landscape architects work, what landscape architecture is, and where landscape architects are needed.

1972-73 List of Accredited Schools of Landscape Architecture — Council on Education, Board of Landscape Architectural Accreditation, and American Society of Landscape Architects

Order from American Society of Landscape Architects.

The Naval Architect and Marine Engineer — The Society of Naval Architects and Marine Engineers

Education, schools accredited in naval architecture and marine engineering, and career opportunities for the naval architect and marine engineer.

ASTRONOMY & METEOROLOGY

A Career in Astronomy — American Astronomical Society

Gives information on the nature of work involved in contemporary astronomy, the schools having training in this area, and employment opportunities.

Career Guidance and Educational Material on Meteorology — American Meteorological Society

Literature on careers in meteorology as the science of the atmosphere. Material includes career booklet; *The Challenge of Meteorology*, and a listing of colleges having degree programs in meteorology. A book, *Opportunities in Meteorology*, is also available. 1972. $5.75.

What Astronomy Is About — American Astronomical Society

What astronomers explore, new finds in astronomy, experimenting in astronomy, astronomer's duties, and how to become an astronomer.

ATOMIC ENERGY

Atomic Energy Commission Special Fellowships in Nuclear Science and Engineering — Oak Ridge Associated Universities

Describes AEC program designed to encourage promising students to undertake graduate studies in these fields and to strengthen nuclear programs at 42 participating universities. Includes outline of graduate programs at these institutions.

Careers in Atomic Energy — U.S. Atomic Energy Commission

The various fields of the atomic scientist. Also contains a selected reading list on sources of financial aid to the student. 27 pp.

Employment Opportunities in the Atomic Energy Field — Bureau of Labor Statistics, U.S. Department of Labor

The bulletin, designed for the use of young persons interested in the field of atomic energy, provides information about the major scientific, engineering, technical, and skilled occupations in this field. 48 pp. 50 cents. Order from Government Printing Office.

AVIATION & SPACE SCIENCE

Career Opportunities in Aviation — National Aerospace Education Association

Employment qualifications, sample questions from the Federal Aviation Agency examination, detailed coverage of the aviation mechanic field, including approved schools. 24 pp. 50 cents.

Careers and Opportunities in Astronautics — Lewis Zarem, E.P. Dutton & Company, Inc.

In nontechnical language, book provides an introduction to various fields of astronautics in industry, government, and education. $6.95.

Careers in Aerospace — American Institute of Aeronautics and Astronautics

The scope of the aerospace field, aerospace scientist or engineer, education, financial assistance, aerospace engineering curriculum, and additional sources of information for aerospace, astronomy, meteorology, and oceanography. 14 pp.

Careers in Aviation — National Aerospace Education Association

A booklet reporting on careers in the airline industry, in the military services, in the federal and state governments, and in a wide variety of general aviation activities. 20 pp. 25 cents.

The People of the Airlines — Air Transport Association

A listing and brief description of the more important airline jobs. Approximate salaries and how to apply included.

Seven Steps to A Career in Space Science and Technology — National Aeronautics and Space Administration.

Measuring interests and abilities against the requirements of a space science career. 24 pp.

Space Science Education Project (Spacemobile) — National Aeronautics and Space Administration

Space Science Lecturers may be helpful to guidance counselors and students who are interested in aerospace careers when they visit the schools. Advance information as to whether a Spacemobile lecturer will visit the school may be obtained from the principal's office.

BIOLOGICAL SCIENCES

A Career in the Biological Sciences — B'nai B'rith Career and Counseling Services

Educational and personal qualifications, student aid, seeking a job, specialties, nature of work, employment opportunities, earnings, advantages and disadvantages, and employment outlook are discussed. Revised 1972. 17 pp. $1.

Career Guidance Booklet — American Society of Zoologists

Careers in Animal Biology, outlining career opportunities in teaching, research, museum work, work with government agencies, etc. Include self-addressed stamped #10 envelope.

Career Opportunities in the Pest Control Industry* — National Pest Control Association

The pest control industry as a source of careers, education required (jobs for high school graduates and college graduates), specialized branches, appropriate personality characteristics, wages, and importance of the industry.

Careers in Biology — American Institute of Biological Sciences. Education Division

Education requirements. opportunities. salaries. diversified working conditions. professional associations. current biology. additional sources of information for the biologist to be.

Careers in Plant Pathology — American Phytopathological Society

Facts about plant diseases. plant pathologists. salary. fields open to plant pathologists. preparing for a career in plant pathology. and people to contact for specific information.

A Guide to Opportunities in Cell Biology — The American Society for Cell Biology

Discusses discoveries and history of cell biology; training. career opportunities and salaries in cell biology; and lists selected readings in the field. 1971. 25 pp. 30 cents.

Let Me Tell You About the Career Opportunities in the Pest Control Industry* — National Pest Control Association

Directed to high school graduates with no previous experience; opportunities to earn while learning. to work independently. to tackle a variety of jobs. and to advance.

Microbiologist — Food and Drug Administration

Possibilities of assignments with this government agency are described in this booklet. 8 pp.

Microbiology in Your Future — American Society for Microbiology

Discusses the areas of microbiology from general microbiology to space microbiology. the planning for an appropriate education. and employment outlooks and salaries. 1970. 16 pp. 2 or more copies. 15 cents each. Also available: *Degree Survey: A List of Colleges and Universities Granting Degrees in Microbiology*. Reprinted from *ASM NEWS* April, 1972. 25 cents.

Pathology: The Science of Disease — The Intersociety Committee on Pathology Information, Inc.

1971. 20 pp.

Should you Be a Pathologist? — The Intersociety Committee on Pathology Information. Inc.

Leaflet by Dr. Alan Moritz.

CHEMISTRY

Career Opportunities in Chemistry — American Chemical Society

This reprint from the March 1971 issue of *Chemistry* gives a profile of chemistry today. the education required. and information about selecting a college. 1-5 copies. no charge; multiple copies. 5 cents each.

Careers for Adventurers — Manufacturing Chemists Association

Flyer presents the opportunities and challenges of a career in the chemical industry. 4 pp.

Careers in Biochemistry — Educational Affairs Committee. American Society of Biological Chemists, Inc.

Fields of investigation, the scope of research, career planning, education and training costs, salaries, and sources of further information in biochemistry. 1972. 6 pp.

Careers in Chemistry — Department of Chemistry, State University of New York

Curriculum guide for chemistry detailing the biochemistry and natural products option, and the wood and polymer option of the College of Forestry, State University of New York. 11 pp.

Careers in Chemistry: questions and answers — American Chemical Society

Seventeen questions and answers about how to become a chemist and what it is like to be a chemist.

Chemist — Food and Drug Administration

Some assignments chemists may have in careers with this government agency. 8 pp.

Chemistry Guidance Leaflet — University of Missouri at Rolla

Pamphlet describing careers and requirements in chemistry.

A Different Career in Chemistry — American Chemical Society

This reprint from *Chemistry* magazine discusses job opportunities available for chemical and chemical engineering technicians. Revised 1972. 1-5 copies, free; multiple copies, 5 cents each.

Finding Employment in the Chemical Profession — American Chemical Society

Concerned with the types of employment available to chemists and chemical engineers, when and how to establish contact with employers, and the follow-through steps. 32 pp. 50 cents.

Is Chemical Technology the Career for You? — American Chemical Society

Describes the preparation necessary for chemical technicians, the various duties they perform, and the industries that employ them. More than 5 copies, 15 cents each.

Learn to Do Something* — The Dow Chemical Company

Designed for high school students interested in a career in the chemical industry. Outlines positions in engineering, chemistry, and marketing and describes necessary skills. 16 pp. Single copy free to teachers.

Probe Tomorrow as a Chemical Technician — Manufacturing Chemists Association

Describes the opportunities for young people in this field and the training and other qualifieations desirable for entering it. 12 pp.

Sources of Career Information in Scientific Fields — Manufacturing Chemists Association

Lists names and addresses of numerous organizations which provide vocational materials in chemistry and in other scientific areas.

CONSERVATION & ECOLOGY

Career Opportunities in the Environmental Protection Agency — U.S. Environmental Protection Agency

History and organization of EPA; career opportunities in air and water programs, categorical programs, noise abatement programs, enforcement and general counsel, special employment category; and application procedures. 18 pp.

Careers in Range Science and Range Management — Society for Range Management

Range management is concerned with the study, management, and use of rangeland ecosystems for livestock grazing, wildlife habitats, water production, and environmental enhancement. Booklet describes the characteristics of rangelands and some of the diverse resources obtained from them; tells something of the profession, the employment opportunities, and the college curriculum; and lists the schools comprising the Range Science Education Council. 1971. 16 pp. Illus. Write for price list for multiple copies.

Careers in Wildlife Conservation and Management — Wildlife Management Institute

What is involved in wildlife management, required training, and other facts about this career.

Information on Careers and Job Opportunities in Water Pollution Control — Water Pollution Control Federation

Suggests six sources for specific employment opportunities in the water pollution control field. Also, the *Journal Water Pollution Control Federation* includes a Personnel Service column showing Personnel Wanted or Personnel Available with each monthly issue.

Sampling of Current Career Guideline Documentation for Institute of Environmental Sciences — Institute of Environmental Sciences

Background and information sources in the field of environmental ecological education. Numerous Contemporary Environmental Ecological Education Resource Handouts are also available from the Institute.

1973 Tutorial Proceedings — Realism (Assessment) of Career Education in the Environmental Sciences — Institute of Environmental Sciences

Twenty-three papers including such topics as Assessment of Environmental Education Programs in Academe and Special Centers, Environmental Careers or Guidelines in Practice or Prospect, and Retraining via Environmental/Ecological Education for New Careers. 1973. 108 pp. $6 to IES members, $8 prepaid to nonmembers.

Universities and Colleges Offering Curricula in Wildlife Conservation — The Wildlife Society

Roster includes those North American campuses that have indicated they have special curricula related to the fields of wildlife conservation and management but is *not* accredited or certified or endorsed by the Wildlife Society. December 1972.

A Wildlife Conservation Career for You — The Wildlife Society

The wide range of rewarding careers in this field is described in this pamphlet, which also lists sources of further information.

Working Toward A Better Environment — Some Career Choices — U.S. Environmental Protection Agency

The range of choices, planning your career, environmental courses and curricula, environmental employers, junior colleges, and other institutions offering courses in environmental technology, and sources of career information. 27 pp.

Your Career *in* Parks and Recreation — Julian Messner

Details various job opportunities in government and private industry for those concerned with the restoration and conservation of our natural resources. 1970. 192 pp. $4.29.

ELECTRONICS

Careers and Opportunities in Electronics — John M. Carroll, E.P. Dutton & Company, Inc.

Career book on electronics which covers both the training needs and the wide range of opportunities within the field. $4.95.

The Electronic Service Technician — Futures Unlimited — Electronic Industries Association

Career possibilities in radio and television service in a pamphlet, or film on loan. Also available: *Routes into the Future*, a list of schools offering consumer electronics servicing courses.

COMPUTER SCIENCE

Analytically Minded? — International Business Machines Corporation

Outlines job opportunities in systems engineering with emphasis on IBM. 32 pp.

Careers and Opportunities in Computer Science — John M. Carroll. E.P. Dutton & Company. Inc.

Comprehensive presentation of what the computer is and what it can do — and its amazing potentials — and a detailed picture of each of the many jobs its use has created for both men and women. $4.95.

Computer Science — University of Missouri at Rolla

Opportunities in computer science, the training available at this university.

The Programmers — International Business Machines Corporation

Provides a concise description of programming, what a programmer does, and how he accomplishes this task in the two main areas of applications and systems. IBM locations are outlined, as well as educational requirements and IBM company benefits.

Occupations in Electronic Computing Systems — U.S. Department of Labor

Gives job descriptions and necessary qualifications for positions in computing systems. 72 pp. 40 cents. Order from Government Printing Office.

ENGINEERING

Accredited Curricula Leading to Degrees in Engineering — Engineers' Council for Professional Development

Annual listing of accredited curricula in engineering. 1973. 8 pp.

Biomedical Engineering (BME) — American Institute of Biological Sciences Bioinstrumentation Advisory Council

Career opportunities, educational background, and descriptions of specialized applications of engineering to the medical field.

Biomedical Engineering Education Summary Directory 1971 — American Institute of Biological Sciences Bioinstrumentation Advisory Council

Lists associate degree programs; undergraduate and graduate programs; miscellaneous courses offered by schools, associations, home-study institutes and the U.S. Government; and fellowship information. Some Canadian and British sources for degree programs also included.

Can I Be an Engineer? — Public Relations Staff, General Motors Corporation

An outline of what engineers do, precollege courses, and the opportunities for engineering graduates. 19 pp.

Careers and Opportunities in Engineering — Philip Polack, E.P. Dutton & Company, Inc.

Book discusses the qualifications, training, salaries, and prospects for advancement in various types of engineering careers. $4.95.

Careers in Engineering — B'nai B'rith Career and Counseling Services

Nature of work, fields of specialization, educational preparation, employment opportunities, financial aid, earnings, and employment outlook are discussed. 1972. 26 pp. $1.

Chemical Engineering at Dow — Dow Chemical Company

Opportunities in the vast range of the chemical engineering profession with samples of tasks one might encounter at this company. 16 pp. Single copy free to teachers.

Civilian Careers with the Corps of Engineers — Corps of Engineers, Department of the Army

Describes opportunities in resources planning and management; engineering and architectural design; topography, geodesy, mapping, and charting; hydroelectric power production; nuclear power production; engineering and scientific research and development; indicates how to turn interest to action. Order from Government Printing Office. 1972. 33 pp.

The Demand for Engineers — Engineers Joint Council

A new analysis of demand, pulling together statistics from U.S. government sources concluding that demand will exceed supply between now and 1980. 1972. 6pp. $2.

Engineering . . . A Career of Opportunity — National Society of Professional Engineers

Booklet explains engineering and the preparation and educational requirements of engineers. Revised 1972. 12 pp.

Engineering and Applied Science — Columbia University School of Engineering and Applied Science

This booklet describes the program at Columbia University and provides much information about careers in engineering and applied science.

Engineering Guidance Leaflets — University of Missouri at Rolla

A group of pamphlets each discussing one discipline of engineering: aerospace, civil, chemical, nuclear, electrical, mechanical, ceramic, petroleum, mining, metallurgical and geological; engineering mechanics, engineering management.

The Engineering Technician — American Society for Engineering Education

Gives information on the technician's place in society, opportunities, qualifications, cost of education, and fields of study. 1970. 21 pp. 50 cents.

The Future Outlook for Engineers — Engineers Joint Council

A projection of the prospective output of new engineering graduates showing a growing gap between supply and demand, plus the latest outlook figures released by the U.S. Department of Labor. Bulk prices on request. 4pp. $1.

The Industrial Engineer: Onetime Black Sheep Becomes Glamorous — American Institute of Industrial Engineers

Reprint from *The New York Times* tracing the transformation from the "seat of the pants" approach to the sophisticated functions of today's industrial engineer. 1971.

Industrial Engineering: The Profession with a Future — American Institute of Industrial Engineers

Prepared for secondary and college students as an introduction to the field of industrial engineering.

Is Civil Engineering for You? — American Society of Civil Engineers

What civil engineering produces, the variety of alternative careers in civil engineering, personal requirements for a civil engineer, studies required for a civil engineering degree, the role of civil engineering in constructing a better world. A list of supplementary reading is also included.

List of Accredited Curricula Leading to Degrees in Engineering Technology — Engineers' Council for Professional Development

Annual listing of curricula in engineering technology offered by institutions of higher education in technical institutes, junior/community colleges, colleges of technology, polytechnic colleges, divisions of colleges and universities, proprietary schools operated by individuals or corporations. 1973. 6 pp.

Make Your Goal Measurement and Control — Scientific Apparatus Makers Association

Engineering and technical careers for a graduate engineer or a technician in measurement and control engineering.

Mechanical Engineering at Dow — Dow Chemical Company

Opportunities in the mechanical engineering field, with samples of tasks one might encounter at this company. 16 pp. Single copy free to teachers.

Nuclear Engineering in Your Future — American Society for Engineering Education

Lists the challenges of consumer and industrial power, space exploration, water supply, and prevention of environmental pollution in the field of nuclear engineering. 1969. 20 pp. 50 cents.

Nuclear Science and Engineering at State Universities and Land-Grant Institutions — National Association of State Universities and Land-Grant Colleges

This booklet provides a quick guide to facilities and programs in nuclear science and engineering at state universities and land-grant institutions. 15 pp.

Scope and Functions of the Professional Safety Position — American Society of Safety Engineers

A thorough examination of the professsional safety position. 1972.

Why Not Be An Engineer? — U.S. Department of Labor, Women's Bureau

Information about the opportunities in this field for women.

Women in Engineering — Engineers Joint Council

A compilation of data and expert opinion on the role of women in the engineering profession. 1972. 6 pp. $1.50.

FORESTRY

Ask Any Forester — Society of American Foresters

Describes the rewards and opportunities of a career in forestry. 5 pp.

Careers in Forestry — American Forest Institute

Script for a cassette tape interview done for college radio stations. Single copies free; 100 copies, $5. Cassette has "Progress in Industrial Forestry," an interview with Norman Bjorklund, chief forester, Industrial Forestry Association on the flip side. $2.

Colleges & Universities Offering Professional Education Programs for Careers in the Forest Products Industries — National Forest Products Association

Lists colleges and universities, graduate and undergraduate programs in the U.S. and Canada.

Environmental Science and Forestry: the career challenge for the 70's — State University of New York, College of Environmental Science and Forestry

Choosing a college from resources management, forest biology, forest engineering, paper science, forest chemistry, landscape architecture, wood products engineering, forest technology. Admission procedures, costs, financial aid graduate education.

Field Offices of the Forest Service — Forest Service, U.S. Department of Agriculture

Lists Forest Service Regional Offices and addresses, National Forests and their headquarters locations, Research Unit headquarters and State and Private Forestry Area headquarters. 1972. 4 pp.

Forest Technology Program — Ranger School, Wanakena Campus — State University of New York, College of Environmental Science and Forestry

The Wanakena Campus and program, cost, financial aid, admission requirements, and further information on the forest technology program.

A Job With the Forest Service* — Forest Service, U.S. Department of Agriculture

A 20-page booklet describing non-professional employment possibilities in the U.S. Forest Service. Order from Government Printing Office. Revised July 1972. 15 cents.

In Your Service: The Work of Uncle Sam's Forest Rangers — Forest Service, U.S. Department of Agriculture

Discusses the role of the forest ranger in the management of timber resources, grazing lands, wildlife refuges, and recreational facilities; the safeguarding of water supplies; and the improvement and maintenance of land and forests. Order from Government Printing Office. 1972. 25 cents.

Opportunities Unlimited in the Forest Products Industries — National Forest Products Association

The forest products industries, details about possible careers in this field, how to choose a school, and the future of the forest industry.

Pulp & Paper: We Invite You to Invest in Your Future — Syracuse Pulp and Paper Foundation, Inc.

The paper science and engineering curriculum at State University of New York, College of Environmental Science and Forestry, admission requirements and tuition costs, industry-sponsored scholarships and how to apply for them.

Schools and Colleges Offering Technical and Vocational Education Programs for Careers in the Forest Products Industries — National Forest Products Association

Schools and colleges offering one year or less (certificate) two year (Associate degree), or three year technical and vocational preparatory programs for careers in the forest products industries.

So You Want to Be a Forester? — Forest Service, U.S. Department of Agriculture

Reprinted by special permission of The American Forestry Association. Tells what a forester does, what schools offer the curriculum of forestry, and how the student can determine whether he is qualified. Order from Government Printing Office. Revised 1972. 24 pp. 25 cents.

Trees for 2001 — Today's Foresters in Action — American Forest Institute

A 17-minute, sound filmstrip in color, presenting the professions and occupations in forestry. Foresters, forest technicians, and logging crews describe their work, and pre-forestry students explain why they are choosing forestry as a career. Produced by Guidance Associates, in cooperation with the American Forest Institute. Filmstrip with record, $19.50; with cassette, $21.50.

What the Forest Service Does — Forest Service, U.S. Department of Agriculture

Discussion of Forest Service activity in three major areas of operation: (1) management, protection, and development of the National Forests and National Grasslands; (2) cooperation with state and private forest owners, wood processors, and public agencies to improve and extend the nation's forest resources; and (3) research needed for (1) and (2) and for forest and range lands generally. Revised November 1972. 5 pp.

ERIC Full Text Provided by ERIC

Wood Technology: The Materials Science of the Forest Products Industry — Society of Wood Science and Technology

Wood science and technology as a profession.

GEOLOGICAL SCIENCES & OCEANOGRAPHY

Careers in Exploration Geophysics — Society of Exploration Geophysicists

Job opportunities combining interests in geophysics, geology, geomagnetics, hydrology, oceanography, seismology, and other related earth sciences. 1-10 copies free; 11 or more, 25 cents each.

Directory of Geoscience Departments — American Geological Institute

Lists names and addresses of all institutions in the United States and Canada that offer courses and/or grant degrees in the geological sciences. 1972. 220 pp. $8 prepaid.

Directory of Marine Science Education 1973 — The Center of Wetland Resources, Louisiana State University

Provides a national listing of marine science teachers in precollege education. 1973. 46 pp. $2.

Geology-Earth Science — University of Missouri at Rolla

The program at this school is featured in this description of careers in geology.

Gemology As A Career — Gemological Institute of America.

What gemology consists of, the training required, and opportunities in the field.

Geophysics: The Earth in Space — American Geophysical Union

Fields which geophysics encompasses; geophysics as a career prepared especially for high school students, science teachers, and vocational guidance counselors. April 1970. 11 pp.

Geology: Science and Profession — American Geological Institute

Revised 1972. 28 pp. Tells how geologists work and live, where the jobs are, and what it takes to become a geologist. 1-49 copies, 35 cents each; 50 or more copies, 25 cents each. Orders under $5 must be prepaid.

Geophysics — University of Missouri at Rolla

Careers in the field of geophysics, with emphasis on the curriculum at this school.

The Oceans and You — Marine Technology Society

Career prospects in oceanography; employment possibilities with the federal government, private industry, and universities; oceanography curricula, information on marine technicians, a reading list, and further sources of information. 1973. 77 pp.

Publications of Value in Planning an Earth Science Career — American Geological Institute

Bibliography of 25 publications on earth science careers.

Research in the Sea — Woods Hole Oceanographic Institution

GRAPHIC ARTS

A Career in Typography Today — International Typographic Composition Association

A career booklet which describes the challenging careers in today's typographic industry. 10 pp.

Answers to Some Questions about Careers in Graphic Communications — Graphic Arts Technical Foundation

Describes the scope of a career in graphic communications and lists the requirements.

Career Posters — Eastman Kodak Company

Each poster is 17 x 22 inches and printed in full color. The initial four posters include Graphic Arts Researcher, Graphic Arts Cameraman, Portrait Photographer, and Industrial Photographer. A second set includes the Graphic Arts Pressman, Visual Communications Instructor, Graphic Designer, and Commercial Photographer. $1 per set.

Careers in Graphic Communications — Education Council of the Graphic Arts Industry, Inc.

Defines graphic communications, specifies general job categories, and lists sources for further information.

Careers in Typography — International Typographic Composition Association, Inc.

Opportunities in the typographic industry, the range of jobs, and schools offering typography programs.

Graphic Arts Procedures —Basic — American Technical Society

Describes the various printing trades; details related techniques and skills required in this field; explains the basic printing processes, different type faces, methods of display, layout, and copy presentation and gives advice on how to put acquired skills to work profitably. 4th edition. 409 pp. Book, $6.50; Study Guide, $1.90.

Graphic Communications — We Used to Call It Printing — E.I. du Pont de Nemours & Co., Inc.

A 16mm color motion picture film produced by the E.I. du Pont de Nemours & Co., Inc., with the cooperation of Graphic Arts Technical Foundation, dealing with the graphic communications industries and career opportunities available within these industries. Has won a number of awards as an excellent career film. 1969. Free on a loan basis.

Is Graphic Arts the Career for You? — Graphic Arts Technical Foundation

The booklet was developed and produced by a senior graphic arts student in a vocational-technical high school and depicts opportunities in the industry. 8 pp.

Lithography — The Modern Method of Graphic Communications — National Association of Printers and Lithographers

A career booklet designed to explore career opportunities in lithography. 23 pp.

Technical Schools, Colleges and Universities offering courses in Graphic Communications — Education Council of the Graphic Arts Industry, Inc.

Comprises programs in technology, management, education, industrial technology, and design in the United States and Canada.

INDUSTRIAL

Acoustics and You — Acoustical Society of America

Opportunities in acoustics in industry, education, and government; preparation; and projected growth in fields of acoustics.

American Paper Institute — What's So Special About Paper?

Outlines the various types of job possibilities in the paper industry and lists some scholarships available. Also lists colleges giving specialized training in papermaking.

Careers in Industrial Hygiene — American Industrial Hygiene Association

Industrial hygiene — the career itself, preparation, outlook, and where to get more information

General Motors Corporation — Can I Be A Draftsman

A description of opportunities for draftsmen and preparation for employment. 13 pp.

General Motors Corporation — Can I Be A Technician?

Opportunities for technicians and preparation for employment. 16 pp.

General Motors Corporation — In Planning Your Future, Look First at the Retail Automobile Business

Describes the opportunities available to young men and women in such areas as sales, service, and office work related to an automobile dealership. The booklet tells students about how such a business operates, how they can get started, what they would do in various jobs, and what the future is likely to be.

General Motors Corporation — The College Graduate and General Motors

A general explanation of the General Motors Institute Engineering and Industrial Administration Programs and a description of the cooperative plan and various phases of the program.

How to Crack the Establishment* — The Society of the Plastics Industry, Inc.

Fifteen-minute, color, sound, 16mm guidance film for junior and senior high school. Rental, free. Purchase, $150. A followup brochure, *How to Infiltrate the Establishment Without Losing Your Identity*, is also available.

If You Are Interested in Any of the Following Jobs . . . You Must be Interested in our Dynamic Industry: Natural Gas* — American Gas Association

Jobs in the natural gas energy industry as draftsman, office clerk, construction worker, repairman, marketing technician, appliance serviceman.

International Business Machines Corporation — The Problem Solvers

Outlines job opportunities in business administration, engineering, system engineering, customer engineering, science, marketing, programming, research, and finance, as well as general information about IBM.

Job Descriptions for Plastics Manufacturing Plants — The Society of the Plastics Industry, Inc.

Examples of typical work requirements in plants engaged in blow molding, compression molding, injection molding, extrusion, and reinforced plastics. 1972. 12 pp. Other booklets: *Inside the Plastics Industry*, 10 pp. and *The Custom Molder*, 8 pp.

Shell Oil Company* — Opportunities with Shell

How to learn and progress in a wide variety of technical and nontechnical jobs in the petroleum industry. 48 pp.

MATHEMATICS

Careers, Choosing a University, Scholarships and Fellowships — American Mathematical Society

Pamphlet also includes sources for additional information.

Careers in Statistics — American Statistical Association

Brochure designed to provide information about statistical careers for students, teachers, guidance counselors, and educational organizations. Gives detailed description of meaning of statistics, work of statisticians, kind of education needed, and salary information. 23 pp. Limited quantities. Second edition. 1963.

General Information Handout — The Mathematical Association of America

Contains general information on careers in mathematics, selecting a college, locating sources of scholarships and loans, and a bibliography on careers in mathematics.

Guidebook to Departments in the Mathematical Sciences — The Mathematical Association of America

Summarizes information about the location, size, staff, library facilities, course offerings, and special features of departments in the mathematical sciences in four-year colleges and universities in the United States and Canada. 1972. $1.30.

Information on Careers and Programs in Mathematics and Related Fields — Society for Industrial and Applied Mathematics

Bibliography on Careers in Mathematics and Related Fields and *A Guide to College Programs in Applied Mathematics* were both compiled in 1971. *Bibliography*: single copies, free; *Guide*: 50 cents each.

Jobs in Mathematics — Science Research Associates, Inc.

This booklet describes careers in the mathematics field. 48 pp. $1.50 net.

Mathematics — University of Missouri at Rolla

Opportunities in mathematics, with emphasis on the program at this school.

Mathematics and My Career: A Collection of Essays

Seven essays addressed to high school and college students discuss the usefulness of mathematics and mathematical thinking in a variety of careers. 1971. 62 pp. Illus. $1.30. Additional career information upon request.

Mathematics & Science Field Trip Guide — Mathematics and Science Center

Lists contact, tour days and hours, length of tour, number able to accommodate, age level, advance notice restrictions and telephone number for most locations, and at least a contact and phone number for others. Lists over 125 tour locations. 1971. 118 pp. $1.

Professional Opportunities in Mathematics — The Mathematical Association of America

Contains information about the teacher of mathematics, the mathematician in industry, in government, in applied probability and mathematical statistics, in the actuarial profession; job opportunities at the bachelor's degree level; and references for further reading. 1971. 27 pp. 35 cents, single copies; 30 cents, five copies or more. Payment is requested with order.

You'll Need Math . . . . . — The Mathematical Association of America

The need for math in many specialized careers.

MEDICINE & HEALTH

ALL MEDICAL FIELDS

Careers in Health — U.S. Department of Health, Education, and Welfare

Opportunities for a career in health in the U.S. Government.

Careers in the Health Field — Julian Messner

Practical and functional descriptions of the range of occupations in the health field. 1972. $4.79.

Career Opportunities — Health Technicians — J. G. Ferguson Publishing Co.

Reference guide examines in detail 25 major health career areas and describes over 150 specific job opportunities available to graduates of technical health programs offered by community colleges, technical institutions, vocational schools, hospital-based schools, and some four-year colleges and universities. Information on each career includes specific job descriptions, necessary personal qualification, educational requirements, curricula, licensure or certification requirements, entry-level jobs and ways to get them, working conditions, earnings and benefits, advancement opportunities and future trends. 1970. 386 pp. $11.95.

Careers That Count — American Hospital Association

This brochure lists a number of health occupations and gives the names and addresses of the national health practitioner associations to contact for further information. Revised 1973. 12 pp.

Cross-Reference: Manpower-Education-Careers — American Hospital Association

A monthly service of the Bureau of Manpower and Education, AHA, which reports on the latest activities and developments in health careers recruitment, health occupations education, continuing education, health manpower research, manpower legislation, licensure and career mobility, innovations in manpower utilization, and emerging health occupations.

Educational Programs in the Health Field — American Hospital Association

A list of dental, medical, and paramedical schools in the United States and Canada for more than 25 occupations.

Graduate Study in Public Health — The American Public Health Association

Information about schools of public health and a list of these schools, degrees and diplomas, curriculum, admission, financial assistance and source addresses, and a bibliography of health career information.

Health Careers Film Guide — U.S. Department of Health, Education, and Welfare

Comprehensive list of health careers films with title, duration, year of publication, b&w or color, cost and source designated for each film. Those films which are particularly suited for Black and other minority recruiting are delineated as such. Order from Government Printing Office. 1972. 29 pp. 35 cents.

Health Careers Guidebook* — U.S. Department of Labor

Describes many occupations in the health field, including training, opportunities, and job prospects. 1972. Third edition. 166 pp. $2.25. Order from Government Printing Office.

Health Careers Publications Guide — National Health Council

Lists and describes materials used by national health organizations and by local health manpower groups in recruiting for health professions and includes complete address for each source. 1973. 20 pp.

Health Careers Series* — American Hospital Association

A series of leaflets on various careers in the health and hospital field; one title is "Supportive Nursing Personnel in Hospitals and Other Health Care Facilities."

Horizons Unlimited — American Medical Association

A handbook to aid counselors in acquainting students with the wide career opportunities in medicine and allied fields. Guidelines for a career as a physician and descriptions of about 50 other careers in eight major health fields. Revised. 1972. 134 pp. 1-10 copies, 50 cents; 11 or more copies, 30 cents.

The Indian Health Program of the U.S. — Public Health Service — U.S. Department of Health, Education, and Welfare

Background about the Indian health program and opportunities for training and education within that program.

Institutions of Higher Learning Offering Graduate Training in Community Health Education — Society for Public Health Education, Inc.

Lists schools accredited by the American Public Health Association.

Job Directory — Health Services and Mental Health Administration

Describes 15 federal programs in health services and mental health careers with the major occupations they utilize.

Jobs in Health — Science Research Associates, Inc.

Health careers at various professional levels, with training requirements and salary range. 48 pp. $1.50 net.

Join the Life Corps* — U.S. Department of Health, Education, and Welfare; Bureau of Health Manpower Education

Short job descriptions and training requirements for occupations in and related to the health field for physicians, osteopathic physicians, dentists, optometrists, podiatrists, pharmacists, veterinarians, medical allied manpower, dental allied manpower, and environmental health manpower. Details about financial funding, both federal and nonfederal and aid for minorities. Other sources of career information are also listed. 1972.

New Careers in Health Services Research & Administration — U.S. Department of Health, Education, and Welfare

Brochure lists areas of training in health services research and administration, types of support, and who can apply. Order from Government Printing Office. 1970.

What is a Public Health Educator? — Society for Public Health Education, Inc.

A health educator — his opportunities, responsibilities, and prospects. 3 pp.

Whatever Happened To . . .* — American Hospital Association

Six profiles of actual people who have found fulfillment in the health field as a pharmacist, a physical therapy aide, an occupational therapist, a pediatrician, a hospital administrator, and a family-health worker.

Where to Get Health Career Information — National Health Council, Inc.

An English and Spanish pamphlet which lists the national organizations which have career literature, films, and other materials relating to specific occupations. 2-99 copies, 5 cents each.

CAREERS RELATED TO HEALTH AND MEDICINE

A Career in Clinical Chemistry — American Association of Clinical Chemists

The scope and challenge of clinical chemistry, your education for clinical chemistry, the future of clinical chemistry are all delineated within this brochure.

Career Materials in Environmental Health and Sanitation — National Environmental Health Association

Several brochures pertaining to career areas in environmental health, lists of two- and four-year schools, a sample job description of a sanitarian and a sanitation aide, a sample curriculum from a technical school, and other materials, including scholarship information.

The Compleat Inspector — Food and Drug Administration

Checking sanitary conditions, manufacturing processes, labeling, and other considerations involved in manufacture and selling of foods, drugs, and cosmetics.

Educational Opportunities in Parapsychology — Parapsychological Association

Covers preparation for scientific work in parapsychology, graduate programs endorsing research in parapsychology, educational opportunities without credit towards a degree, and professional societies and journals recommended to students and other scientists interested in parapsychology, 1970.

Educators Discuss Resources and Needs — American Society for Psychical Research

Summary of a February 1972 meeting of the Committee on Education of the American Society for Psychical Research.

Health Education as Your Career — American Association for Health, Physical Education and Recreation

Pamphlet discusses opportunities in health education, the work, salary, courses of study at college, advantages of such a career.

Health Physics — A Challenging Profession — Health Physics Society

Describes the health physics profession. 1973.

Health Physics: A New Profession in the Atomic Age — Health Physics Society

Answers questions about what health physics is; what health physicists do, where they work, what training they require, their income, universities offering health physics degree programs, and the future outlook of this profession. Revised 1973. 15 pp.

Job Descriptions and Organizational Analysis for Hospitals and Related Health Services* — U.S. Department of Labor

Job descriptions on 238 hospital positions organized by hospital department with descriptions of each department's functions, purposes, and scope of responsibility. Job descriptions include duties; machines, tools, equipment and work aids; education, training, and experience; worker traits; job relationships; and professional affiliations. A chart showing the usual departmental organization in a large general hospital and a selected bibliography on occupational and career information publications is also included. Order from the Government Printing Office. Revised 1971. 732 pp. $4.25.

Medical Illustration — Association of Medical Illustrators

Information about medical illustration, the nature of the work and educational requirements.

Medical Officer — Food and Drug Administration

These officers survey marketed drugs, provide evidence to support legal actions involving drugs, foods, and cosmetics; and determine the adequacy of data on the safety of new drugs proposed for marketing.

The Scientist in the Food and Drug Administration — Food and Drug Administration

The divisions of the Food and Drug Administration and what the major concern of each one are. 24 pp.

Suggested Bibliography on Parapsychology — Parapsychological Association

Lists books and scientific journals which may be of interest to budding parapsychologists.

Today's Hospital — Career Center for America's Youth* — American Hospital Association

Career opportunities in hospitals, the types of people needed, educational requirements. 1970. 8 pp.

CHIROPRACTIC

A Professional Career in Chiropractic, Guidance Manual for Counselors — American Chiropractic Association

A kit containing scholarship information and pamphlets about the career of chiropractic.

Career Brochures — International Chiropractors Association

Brochures published by International Chiropractors Association include "Career Opportunities," "Do You Know Where You're Going?," "Chiropractic . . . A Career With a Future," "Chiropractic," and "Looking for Something."

DENTISTRY

Careers in Dental Hygiene — American Dental Hygienists' Association

Brochure presenting the facts concerning career opportunities, educational requirements, and sources of further information.

Dental Admission Testing Program — American Dental Association

A brochure giving dates and sample questions about dental aptitude tests. Discusses predental requirements and professional course of study. 22 pp.

Dental Hygiene Aptitude Testing Program — American Dental Hygienists' Association

A brochure giving the facts, including dates and sample questions, about the Dental Hygiene Aptitude Test. Also discusses admissions requirements and professional course of study. 15 pp.

Dentistry — A Changing Profession — American Dental Association

Facts a future dentist needs to know when considering choosing dentistry as a career. 24 pp.

Orthodontics: A Challenging Dental Career — The American Association of Orthodontists

Career profile, educational requirements, future outlook, and the certification procedure for a career in orthodontics.

Orthodontics, A Specialty of Dentistry — The American Association of Orthodontists

Article by Milton B. Asbell defines orthodontics and discusses basic principles; principle responsibility; programs of advanced education; diagnostic aids, appliances, and duration of treatment; cooperation of orthodontist patient and parents; and benefits of orthodontic treatment. 1972. 6 pp.

There's an Action Career Ahead When You Become a Trained Dental Assistant — American Dental Assistants Association

The functions and activities of this career are outlined. Also available is a list of schools offering accredited dental assisting courses.

DIETETICS AND NUTRITION

Challenges of Nutrition — American Institute of Nutrition

Challenges of nutrition science in research and in teaching and steps to preparing for a career in this field.

Colleges and Universities Offering a Baccalaureate Degree with a Major in Dietetics — The American Dietetic Association

A listing by state.

Dietetics — The American Dietetic Association

Career facts about dietetics. 5 cents.

Dietetics — Focus on the Future — The American Dietetic Association

Career facts for junior and senior high school students and adults. 5 cents.

Directory of Universities and Colleges Offering Curricula or Courses in Food Science and Technology — Institute of Food Technologists

Universities and colleges of the United States and Canada considered appropriate recipients of Institute of Food Technologists Scholarships and Fellowships for their students by the IFT Committee on Education.

Food Science and Technology — A Career for You? — The Institute of Food Technologists

Work opportunities in industry, in education, and in government; educational preparation, financial aids for a career in food science and technology are explored.

EYE CARE

Licensing Laws of Opticians — Opticians Association of America

Names states where an optician must be licensed as well as four Canadian provinces. Comments on the licensing laws in various states.

New Horizons in Optometry — The American Optometric Association

Lists post graduate programs for doctors of optometry — physiological optics, optics, biology, neurophysiology, psychology, bioengineering, biomechanics, ergonomics, health information and communication, military, consultants, public health, etc.

The O.D.s — Vision Care Specialists — American Optometric Association

A 16mm, 15 minute, color film showing doctors of optometry in real life situations. The photography is excellent, the musical background in today's exciting tempo. Winner of the coveted "Hugo" award of the Chicago International Film Festival and the Silver Award of the International Film Festival. May be had on loan by writing Modern Talking Picture Service, 2323 New Hyde Park Rd., New Hyde Park, New York 11040. Allow three weeks for bookings. Free loan.

Opportunities in Opticianry — Vocational Guidance Materials

Complete answers to questions about the scope of opticianry, educational preparation, getting started, apprenticeship programs, and the path to advancement in the field of eye care.

Opticianry and Vocational Schools — Opticians Association of America

Two-year and four-year programs in the United States.

Optometry - Careers with Vision — American Optometric Association

An informative booklet containing basic information about this career, including need for practitioners and the unique services of this vision care field. All schools of optometry in the United States are listed with their basic entrance requirements. Revised 1973, 34 pp., 95 cents plus postage.

Optometry For You — American Optometric Association

Lists optometric schools and colleges, typical curricula, and gives some important facts about this profession. Revised 1973.

The Paraoptometrics — American Optometric Association

A brochure describing this new horizon in the health care field — the optometric assistants, technicians and technologists. Gives a description of the work, plus curricula.

What is an Opthalmologist? — American Association of Opthalmology

Pamphlet describes the need for physicians who specialize in the care of the eye and all its related structures (opthalmologists or oculists) and their duties.

Why Not Be an Optometrist? — U.S. Department of Labor, Women's Bureau

What optometrists do and what to expect from this career.

MEDICINE

A Career in Medicine — B'nai B'rith Career and Counseling Services

Educational and personal qualifications, student aid, nature of work, specialities, licensure, earnings, working conditions, advantages and disadvantages, opportunities for women, and employment outlook are considered. 1973 Revision. 18 pp. $1.

Anesthesia and You — The American Society of Anesthesiologists

Illustrated booklet explains the reasons for using anesthetics and the need for trained anesthesiologists. 8 pp.

The Anesthesiologist — The American Society of Anesthesiologists

Describes the role of the anesthesiologist in the induction of sleep, in making surgery free of pain, and in the recovery room. 12 pp.

Careers and Opportunities in the Medical Sciences — E. P. Dutton & Company, Inc.

Discusses ten health-care professions with all the information a student usually requires for each, plus experiences of two or three people successful in the field and sources of additional information. $5.95.

The Internist and Your Health: A Pictorial Review of Internal Medicine — American Society of Internal Medicine

Pictorially traces the development of internal medicine and attempts to demonstrate the need for the internist.

Medicine: Are You Woman Enough to Try? — Student American Medical Association. Women in Medicine

Information about academic requirements, questions and answers about medical school, financial aid information, and a bibliography of suggested reading for women interested in medicine.

Summary of Training Programs: Physician Support Personnel — American Medical Association and U.S. Department of Health, Education, and Welfare

Breakdown by state of operational physician support programs to train assistants to the primary care physician, assistants for a specialty, and assistants for primary and/or specialty physicians as well as federal government programs, and programs under development. Title, director, entrance requirements, length of training, when classes begin, entering class capacity, credential awarded, and financial aid are listed for each program. Additional sources of specific health career information are also included. Order from Government Printing Office. 1973. 34 pp.

Your Internist is . . . — American Society of Internal Medicine

A series of pamphlets which examine the function of an internist as an allergist, a cardiologist, an endocrinologist, a gastroenterologist, and as a rheumatologist.

MEDICAL TECHNOLOGY

Careers in the Medical Laboratory[1] — Registry of Medical Technologists

Fact sheet of vocational and professional data with detailed references guide to entire field. 2 cents to produce.

The Human Cell and the Cytotechnologist — Registry of Medical Technologists

Describes cell study and cytotechnologist career. Six-page folder and film. 3 cents to produce.

In A Medical Laboratory — Registry of Medical Technologists

List of free sources for this 28-minute, 16mm, color film with sound cleared for TV.

[1]Entries for the Registry of Medical Technologists are free upon request, however, reimbursal of any or all of the cost it costs to produce the quantities of the items ordered would be appreciated.

Information on Certification — The American Society of Clinical Pathologists, Board of Registry

Identifies the type of certification offered by the Board, and the eligibility requirements for certification and provides information about how to apply for certification. 1973. 16 pp.

Medical Laboratory Careers with a Future* — Registry of Medical Technologists

Flyer-poster describes laboratory careers and lists requirements. 2 cents to produce.

Nuclear Medicine Technician/Technologist — Technical Education Research Centers

Pamphlet details career description outlook, forecast, employment opportunities, financial rewards, advancement, educational requirements, cost and financial assistance, certification, and sources of further information for the career of nuclear medicine technician/technologist. University baccalaureate degree programs, associate degree programs, and hospital programs in nuclear medicine technology are also listed.

School Lists — Registry of Medical Technologists

List of American Medical Association-Approved Medical Schools for Medical Technologists, Cytotechnologists, Certified Laboratory Assistants.

Should You Be a Nuclear Medical Technologist? — Society of Nuclear Medical Technologists

Answers the following questions: What is a nuclear medical technologist? What are his duties? What is the demand? the salary? What are the educational requirements? A complete list of accredited programs in Nuclear Medicine Technology also.

Wanted: medical technologists — Public Affairs Pamphlets

Examines the role of the medical technologist in the laboratory, and in research and teaching and stresses the great need for this health specialist. 1969. 20 pp. 35 cents.

What Kind of Career Could I Have in a Medical Laboratory — Registry of Medical Technologists*

Full descriptions of each career including educational requirements, with color photos of medical staff. 16 pp. 5 cents to produce.

Why Not Be a Medical Technologist? — U.S. Department of Labor, Women's Bureau

What Medical technologists do and what to expect from this Career.

MENTAL HEALTH

Guidelines for the Training of Group Psychotherapists — American Group Psychotherapy Association, Inc.

Includes professional requirements before entering training program, educational requirements, and training program requirements as established for psychotherapists by the AGPA.

The Psychiatric Technician . . . — National Association of Human Services Technologies

Answers the following questions: Who is he? Whom does he serve? What can he do? Why is he important to mental health? What does he need to do his job?

The Psychiatric Technician — An Outline of His Work and Capabilities — The California Society of Psychiatric Technicians, Inc. and the National Association of Human Services Technologies

Description of the psychiatric technician's functions and capabilities presented to a meeting of a Psychiatric Technician Training Committee by Willis H. Bower, M.D.

Standards for Training in Pschyoanalysis — The American Psychoanalytic Association

Discusses eligibility and psychoanalytic requirements of preparatory analysis, curriculum, case seminars and clinical conferences, advanced training in child analysis, tests of the adequacy of a student's training, and certification of completion of training. 8 pp.

Worldwide List and Description of Humanistic Schools — Association for Humanistic Psychology

Indicates what kinds of programs are available in higher education and where most, but not all, are located. Practical information includes costs, chances of acceptance, application deadlines, how the program is humanistic, what types of humanistic psychology are available, and accreditation. 1973. 28 pp. 25 cents to members. $1 to nonmembers.

NURSING

A Career in Nursing — B'nai B'rith Career and Counseling Services

Considers nature of work, specialties, working conditions, earnings and benefits, personal qualifications, education and licensure requirements, financial aids and employment outlook. 1972. 22 pp. $1.

Associate Degree Education for Nursing — National League for Nursing, Inc.

Brochure providing general information about associate degree for nursing. Lists all state-approved schools with information on usual length of program, living arrangements, estimated costs, and whether advanced placement, part-time, or evening study is possible. Revised, 1973. 34 pp. 40 cents.

Career Materials — American Nurses' Association, Inc.

Doctoral Programs in Nursing, Films for Prospective Nursing Students, Information about Assistants to Nurses, Schools of Nursing/R.N.

Career Opportunities — Licensed Practical Nurse — National Association for Practical Nurse Education and Service, Inc.

Description of the steps to follow to become a Licensed Practical Nurse and a directory of state-approved programs of practical/vocational nursing. 1971. 42 pp.

College Education: Key to a Professional Career in Nursing — National League for Nursing, Inc.

Brochure providing general information about collegiate education for nursing. Explains the importance of selecting an accredited school and lists NLN-accredited programs in senior colleges and universities. Includes information on minimal education requirements for entering and using length of the nursing program; policies regarding acceptance of college graduates, married students, and men; living arrangements; part-time study; and approximate costs of tuition and fees. Revised, 1973. 23 pp. 40 cents.

Declaration of Functions of the Licensed Practical/Vocational Nurse — National Association for Practical Nurse Education and Service, Inc.

What functions and vocational responsibilities the Licensed Practical/Vocational Nurse should expect as part of her job.

Doctoral Programs in Nursing/Nurse Scientist Graduate Training Grants Program — National League for Nursing, Inc.

Brochure listing universities that offer doctoral programs administered by the educational unit in nursing and institutions participating in the USPHS Nurse Scientist Graduate Training Grants Program. 1973. 4 pp. 25 cents.

Do You Want to be a Nurse? — National League for Nursing, Inc.

Illustrated booklet describing preparation and career opportunities in registered and practical nursing. 1972. 24 pp. 35 cents.

Education for Nursing: The Diploma Way* — National League for Nursing, Inc.

Gives general information about diploma education in nursing for high school graduates who want to prepare for beginning nursing positions in hospitals and other institutions. Explains the importance of selecting an accredited program and lists NLN-accredited programs. Includes information on usual length of the program, living arrangements, estimated costs for each year, and whether married and transfer students are accepted. Revised 1973. 34 pp. 40 cents.

Husband/Father/Humanitarian/Specialist/Nurse — National League for Nursing, Inc.

Recruitment brochure describing nursing education programs available to men and job opportunities open to them upon completion of the program. 1972. 14 pp. 35 cents.

Let's Be Practical About a Nursing Career — National League for Nursing, Inc.

General career guidance information and list of all state-approved schools that conduct programs preparing for licensure as a practical nurse. Revised 1973. 41 pp. 40 cents.

Masters Education: Route to Opportunities in Modern Nursing — National League for Nursing, Inc.

General information about masters education in nursing, with suggestions for choosing a program. Lists colleges and universities offering NLN-accredited programs with information on curriculum offered by each school, usual length of the program, and approximate cost of tuition and fees. 1972. 20 pp. 50 cents.

Schools of Nursing/RN — National League for Nursing, Inc.

Booklet listing state-approved schools and NLN-accredited programs in nursing that prepare students for licensure as a registered nurse; associate degree programs, diploma programs, and baccalaureate degree programs. 1973. 36 pp. 40 cents.

A Secure Job, A Lifetime Career, after One Year of Study — National Association for Practical Nurse Education and Service, Inc.

Advantages of choosing the career of Licensed Practical Nurse.

Why Have Male Nurses? — National Association for Practical Nurse Education and Service, Inc.

The rewards of nursing as a career for males.

Your Career in Nursing — Julian Messner

Describes the scope of modern nursing to help guide the reader to an informed choice within the field; gives academic and personal requirements, includes case histories. 1970. 192 pp. $4.79.

ORTHOTIC AND PROSTHETIC

Career Opportunities for Orthotists and Prosthetists — American Orthotic and Prosthetic Association

Two important specialists in the treatment of the disabled are the orthotist, who fits braces for the correction of weak or defective body parts, and the prosthetist, who makes and fits artificial limbs. This pamphlet describes the opportunities available and the education and personal qualifications needed in these specialized careers. 8 pp.

OSTEOPATHY

The Education Annual — American Osteopathic Association

Information about training, financial aid, and enrollment in schools offering osteopathy. Lists personal qualifications, preprofessional requirements, and professional training for students, plus descriptions of osteopathic colleges.

Educational Supplement of Osteopathic Education — American Osteopathic Association

Information about training, financial aid, and enrollment in schools offering osteopathy.

Health Careers — Osteopathic Medicine — American Osteopathic Association

Information about the osteopathic profession and physician, admission requirements for colleges of osteopathic medicine, the colleges of osteopathic medicine, subjects taught in colleges of osteopathic medicine, osteopathic licensure, and osteopathic hospitals.

The Osteopathic Profession — American Osteopathic Association

Covers in capsule form all significant information about the osteopathic profession.

The Osteopathic Profession and Its Colleges — American Osteopathic Association

Lists personal qualifications, preprofessional requirements, and professional training for students, plus descriptions of osteopathic colleges, distribution of osteopathic physicians, and scope of practice in various states.

The Profession of Osteopathic Medicine — American Osteopathic Association

Information about the osteopathic profession.

What is a D.O. . . . What Is An M.D.? — American Osteopathic Association

Description of D.O. and M.D. with particular attention to similarities and differences.

PHARMACY

A Career in Pharmacology — American Society for Pharmacology and Experimental Therapeutics, Inc.

Information on such subjects as: What is pharmacology, what does pharmacology offer, and how to enter this profession.

Can the B.S. Pharmacist Find True Happiness in the World of Industrial Pharmacy Researeh? — The Upjohn Company

This brief article discusses career opportunities for B.S. level pharmacy graduates and dispels the false notion that bachelor degreed researchers are no more than "hands" for Ph.D. scientists.

Career Opportunities in Pharmacy — American Association of Colleges of Pharmacy

Up-to-date information on accredited colleges of pharmacy; pharmaceutical, hospital and community pharmacy, and other specialized fields; and where to secure financial aid.

Careers in Pharmacy — B'nai B'rith Career and Counseling Services

Contains detailed and accurate information on duties, preparation, qualifications, earnings and advancement, advantages and disadvantages, and sources of further information. 1970. 16 pp. $1.

Pharmacists Work for Better Community Health — Eli Lilly and Company

Detailed descriptions of major career areas in the pharmaceutical world; information on pharmaceutical education. 9 pp.

Pharmacy — A Health Career — American Association of Colleges of Pharmacy

A filmstrip cassette tape program consisting of a 35mm color filmstrip, a 15-minute cassette tape, and instructions for presentation in a vinyl binder. 1973. $20 for complete set.

Pharmacy School Admission Requirements — American Association of Colleges of Pharmacy

Contains the general history and current admission requirements for pharmacy schools in the United States and Puerto Rico. The book also contains a timetable for application and acceptance to schools of pharmacy for 1973-74 first year classes and a 1974-75 projected timetable. 1973. 134 pp. $4.

Pharmacy Serves Everyone — American Association of Colleges of Pharmacy

Briefly discusses the profession of pharmacy, educational preparation, and financial assistance for young people interested in a career in the pharmaceutical sciences.

Shall I Study Pharmacy — American Association of Colleges of Pharmacy

Outlines the many areas of professional practice in pharmacy as well as preparation for study, pharmacy education, working conditions, sources of financial aid, and accredited colleges of pharmacy. 1973. 32 pp.

This is the Profession of Pharmacology — American Society for Pharmacology and Experimental Therapeutics, Inc. 1970. 20 pp.

Toxicology as a Profession — Department of Pharmacology, Medical College of Virginia

Definition, scope, purpose, studies, approaches, opportunities, and training for toxicology as a profession. Information on programs throughout the country, available scholarships, and other pertinent information also available through the Medical College of Virginia.

Transfer to Pharmacy* — The College of Pharmaceutical Sciences, Columbia University

Pharmaceutical information for those in high school, in college, and out of college covers the educational requirements, application procedure, admissions requirements, suggested curriculum for prepharmacy students, curriculum for the program in pharmaceutical sciences, fees and financial aid, financial assistance for new students, student loan funds, housing, and student life.

What is a Pharmacist? — The Upjohn Company

Emphasizes careers in the pharmaceutical industry for people with degrees in pharmacy or related sciences.

PHYSICAL THERAPY

The Career for You — American Physical Therapy Association

The satisfactions of a career in this profession. *Career Facts*, also available, describes the physical therapist's job and requirements.

Careers in Physical Therapy — American Physical Therapy Association

Describes the roles of the three levels of physical therapy personnel, educational requirements, institutions offering approved programs, employment opportunities, and a limited listing of sources of financial assistance.

The Certification of Respiratory Therapy Technicians — American Association of Respiratory Therapy

Three-color booklet gives general information on the technician certification program. 9 pp.

Considering a Career in Respiratory Therapy — American Association for Respiratory Therapy

Three-color pamphlet presents the field of respiratory therapy to prospective students or the lay public. 16 pp.

Educational Programs Leading to Professional Qualification in Physical Therapy — American Physical Therapy Association

Lists approved curricula.

List of Approved Schools of Respiratory Therapy — American Association of Respiratory Therapy

Official Definitions — American Association of Respiratory Therapy

"Official Definition of Respiratory Therapy" and "Official Job Definitions of Respiratory Therapy Specialties."

Sources of Financial Assistance for Physical Therapy Students — American Physical Therapy Association

Pamphlet giving sources of scholarships and loans available to students majoring in physical therapy. Revised annually.

Your Career in Physical Therapy — Julian Messner

All the educational requirements and qualifications necessary to become an accredited physical therapist. 1969. 192 pp. $4.79.

PHYSIOLOGY

Careers in Physiology — The American Physiological Society

Answers the question What is a physiologist? and discusses the advantages and challenges of working in this field.

PODIATRY

Family Foot Specialist: Doctor of Podiatric Medicine — The American Podiatry Association

Brochure describes podiatry, details the preparation required, the duties on the job, and the need for specialization in the area of podiatry.

Podiatry Education — The American Podiatry Association

General information for prospective students of podiatric medicine including colleges of podiatric medicine, accreditation and degrees, minimum entrance requirements, tuition and fees, financial aid, and student organizations of podiatry. 1972. 13 pp.

Students: Consider a Career in Podiatry — The American Podiatry Association

Describes a career in podiatry and includes information about scholarships and other student aids, education requirements, and rewards in the field.

RADIOLOGIC TECHNOLOGY

Careers in X-Ray Technology — The American Society of Radiologic Technologists

Discusses the need for radiologic technologists. Reviews the training required and the duties one might encounter in this career. 1969.

List of AMA Approved Schools of Radiologic Technology — American Medical Association

VETERINARY MEDICINE

A Career in Veterinary Medicine — U.S. Department of Health, Education, and Welfare

Qualifications, financial aid, licensing, specialization, job description, and employment outlook for the future. Order from Government Printing Office. 1973. 10 pp. 35 cents.

Career Facts about Today's Veterinarian — American Veterinary Medical Association

Answers these questions: What does the veterinarian do? What training is available? What qualifications are needed? and lists colleges of veterinary medicine.

Today's Veterinarian — American Veterinary Medical Association

Qualities needed by a person who enters this profession, the services he performs and a list of colleges which have this curriculum. 1972.

MINING AND METALLURGY

A Career in Metallurgy Will Extend Your Reach — American Society for Metals

Illustrated booklet discusses the opportunities and educational requirements in metallurgy and related occupations. 25 cents each in quantity.

Boy Scout Metals Engineering Merit Badge — American Society for Metals

A short pamphlet describes this award.

Career Opportunities in Metallurgy — American Society for Metals

The different types of careers that are available in the field of metallurgy. 20 cents each in quantity.

Careers in Metallurgy, Materials Science, and Metallurgical Engineering — The Metallurgical Society

The metallurgical engineer, his personal qualifications, educational requirements, salaries and working conditions, employment opportunities, future outlook, and a list of accredited universities and colleges.

Metallurgical Engineering and Mining Engineering Guidance Leaflets — University of Missouri at Rolla

Guidance pamphlets which discuss opportunities in these professions and the program at this school.

Seekers of the Unique — Metal Powder Industries Federation

The powder metallurgy industry and what it has to offer. Client organizations offer educational opportunities, introduction to powder metallurgy oriented companies, plant tours, and other information on an individual basis.

The Metallurgical Engineering Technician — American Society for Metals

A short brochure providing information on metals/materials technology. 15 cents each in quantity.

Penetrating New Frontiers with Minerals Engineers — Society of Mining Engineers of AIME

Geologists, mining engineers, and metallurgists have a variety of careers in this field.

PHOTOGRAPHY

Photography in Your Future — Eastman Kodak Company, Department 412-L

This booklet (T-15) discusses photography's important role in today's way of life and the serious consideration it deserves by all young people planning for the future.

Photography Is . . . — Eastman Kodak Company, Audio Visual Department

Slide/tape presentation available for bookings covers career opportunities in professional and commercial photography and in finishing. Opportunities in photography, finishing, studio management, teaching, sales, and engineering are discussed. Booklet of the same title (ED10-4B) which recaps much of the information covered in the slide presentation is available from Department 412-L.

Photo Technology — American Technical Society

Covers the technical areas of photography and stresses the proper procedures and techniques that apply to taking and printing excellent pictures. One entire chapter is devoted to occupations in photography and the many opportunities in this diversified field. Second edition. 282 pp. Book, $7.75; Study Guide, $2.10.

A Survey of Motion Picture, Still Photography, and Graphic Arts Instruction — Eastman Kodak Company, Department 412-L Booklet T-17.

Worlds Within Worlds — Eastman Kodak Company, Audio Visual Department

Career opportunities in photographic science and engineering are described in this slide/tape presentation available for bookings. Depicts the varied roles of photography in communication, medicine, ecology, space exploration, and underseas exploration. Order identically titled booklet (ED10-6B) which recaps much of the information covered in the slide presentation from Department 412-L..

Your Introduction to Photogrammetry and the American Society of Photogrammetry — The American Society of Photogrammetry

Defines photogrammetry as interpreting and measuring photographic images to obtain sizes, shapes, positions, and other useful characteristics of physical features or objects; explains how it works and how it is used; and details careers in photogrammetry and required education. Write for a list of other publications.

PHYSICS

Careers and Opportunities in Physics — Philip Pollack, E.P. Dutton & Company, Inc.

Discusses opportunities in electronics, nuclear physics, atmospheric physics, power production, aeronautics, biophysics, geophysics, astrophysics, and chemical physics. Gives information on the qualifications needed, educational requirements, and financial rewards. $4.95.

Careers in Physics — B'nai B'rith Career and Counseling Services

Details nature of work, educational requirements, financial assistance, working conditions, earnings, practical hints for seeking a job, and employment outlook. 1972. $1.

Physics as a Career — American Institute of Physics

Discusses physics as a science and as a profession; physicists in industry, teaching, and the federal government; the training of the physicist, and physics organizations and publications. 1970. 20 pp. Single copy free; 2 or more copies, 35 cents each.

Physics as a Career — University of Missouri at Rolla

Opportunities for physicists; the training available at this university.

So You Want to Be a Physicist — Harper & Row

Alan E. Nourse reviews careers in experimental and applied physics and the education required in this specialized and important area of science. 192 pp. $4.79.

The Wise Use of Science — American Institute of Physics

Some paths to explore in the career of physics, how greater awareness on the part of the general public of new technological problems can lead to increased opportunities for research scientists, teachers of science at all levels, and technicians in research or industrial laboratories.

TEACHING & EDUCATION SERVICES

Careers in Education — National Education Association

Analyzes various professional positions in education and how to prepare for them. 36 pp. 50 cents. NEA Stock No. 681-18372.

Educational Employment and the Teaching Profession — National Education Association

Guide to Applying for Educational Employment, 14 pp. 25 cents (431-25520); *A Manual on Certification Requirements for School Personnel in the United States*, 1973 edition in preparation. 232 pp. $6 (381-11810); *The Real World of the Beginning Teacher — 19th National Teacher Education and Professional Standards Report*, 90 pp. $2 (521-15736); *Guidelines to Fringe Benefits for Membership of the Teaching Profession*. 32 pp. 75 cents (381-11880); *Position Paper on Teacher Education and Professional Standards*. Contains statements on teacher recruitment, preparation, certification, and accreditation. 33 pp. 50 cents (381-11624).

So You Want to Be a Librarian — Harper & Row

A thorough description of all types of library work, by Sarah L. Wallace. 192 pp. $4.95.

So You're Going to Be a Teacher — Barron's Educational Series

Robert L. Filbin and Stefan Vogel give information on teaching as a career, including the rewards of teaching, classroom management, modern educational materials, staff relations, and a chart of states' certification requirements. $1.50 paper; $3.95 cloth.

TECHNICAL WRITING

Technical Writing as a Career — Society for Technical Communication

Deals with the following questions: Why be a technical writer? How big is the field? What are the salaries? Where is technical writing done? What kind of education is needed? What is the future of technical writing? 13 pp.

Is Technical Writing *Your* Career — Society for Technical Communication

Defines technical writing and details the educational requirements, future demand, and expected salaries of a technical writer.

Why Not Be a Technical Writer? — U.S. Department of Labor, Women's Bureau

Information about the opportunities in this career area.

INFORMATION ON SCHOLARSHIPS & LOANS

Many industrial corporations, foundations, associations, and other groups, as well as individuals, provide financial assistance to students who plan to study science. The following are only a few of the programs that are available. The admissions offices of appropriate colleges and universities will be helpful, as new programs are constantly developing.

American Association of Textile Chemists and Colorists Scholarship Program

AATCC has established an annual scholarship of $1,000 to be rotated among those educational institutions having AATCC student chapters: Auburn University, Clemson University, Georgia Institute of Technology, North Carolina State University, Philadelphia College of Textiles and Science, Radford College, Southeastern Massachusetts University, and Virginia Polytechnic Institute.

The Andover Teaching Fellowship Program — Associate Headmaster, Phillips Academy

This one-year program prepares able young college graduates who have not taught, for a career in teaching. It provides an apprenticeship not only in classroom teaching, under the supervision of experienced teachers, but in all aspects of education in a boarding school. Stipend $4,500 plus room and board. Application deadline: January 15 for following September.

Barron's Handbook of American College Financial Aid — Barron's Educational Series

This handbook provides an informative discussion on what to consider in determining the cost of attending college, how to apply for aid, how aid awards are granted, etc. Includes complete charts of financial aid data of 4-year colleges in the United States. Revised 1973 Edition. $6.95 paper.

Barron's Handbook of Junior and Community College Financial Aid — Barron's Educational Series, Inc.

This edition provides a discussion on the costs of attending a 2-year college, and answers the major questions related to receiving aid. It gives complete expense and financial aid information on over 800 2-year colleges in chart form for quick and easy reference. Revised 1973 Edition. $6.95 paper.

E. I. du Pont de Nemours & Company — Engineers at Du Pont. 20 pp; Chemical Engineers at Du Pont. 26 pp; Mechnical Engineers at Du Pont. 20 pp; Your Opportunities at Du Pont. 2 pp; Opportunities at Du Pont for Technical Institute Graduates. 12 pp.

Illustrated booklets highlighting the research program, the role of research and development capital in furthering scientific progress, and descriptions of the prospects for graduate engineers with reference to Du Pont's fellowship program.

Federal Dollars for Scholars — Nu-Toy, Inc.

Provides information on the Selective Service system and the various branches of government that offer financial assistance to undergraduate and graduate students. The major section of the publication describes the 401 programs supported by 36 federal agencies of financial assistance for education, research, or training. Health related professions include medicine, dentistry, nursing, pharmacy, and social work. 1970. 297 pp. $3.99.

Financial Aids for Optometry Students — American Optometric Association

Lists available scholarship and loan programs for optometry students. Gives approximate cost of education and setting up practice. Also lists available aids for minority students. 15 pp. 25 cents.

Financial Information National Directory — American Medical Association

Includes information on more than 1,000 sources of financial assistance for students interested in health careers. Details on funds from the federal government and from national sources such as the United Student Aid Fund and American Dental Trade Association Loan include eligibility requirements, amount of awards, repayment provisions, deadlines, source of contact. Funds earmarked for minority group members are cross-referenced in a separate chapter. 1972. 232 pp. $2.95 prepaid.

General Motors Educational Opportunities

A booklet that explains the GM Scholarship Plan and the procedure to be followed in applying for college undergraduate scholarships sponsored by GM.

Guide to Student Assistance — Government Printing Office

Helpful financial aid information and other guidelines for students pursuing a college education. 1970. 60 cents.

Half Tuition Scholarships — Institute of Gas Technology

Offers a limited number of half tuition scholarships to qualified Illinois Institute of Technology students who are entering their junior year and are majoring in chemical, civil, or mechanical engineering.

Health Professions Scholarship Program — U.S. Department of Health, Education, and Welfare

Describes the program, the eligibility requirements, the amount of support available, and whom to contact for entrance to the program.

Health Professions Student Loan Program — U.S. Department of Health, Education, and Welfare

Specifics about eligibility, amount of loan and interest rate, deferred or canceled payment, and further information about the Health Professions Student Loan Program.

A National Catalog of Financial Aids for Students Entering College — William C. Brown Company Publishers

Information about more than 2,400 sources of financial aids. Sixth edition. 1974. 544 pp. Paperbound, tentatively $9.95.

Need a Lift? — The American Legion, Department S

Annually revised handbook published as a part of the American Legion's Education and Scholarship Program, contains sources of career, loan, and scholarship information for all students. Handbook serves as a guide for teachers and parents. 50 cents, prepaid; 100 or more copies, 30 cents each.

Nursing Student Loan Program Career Information — U.S. Department of Health, Education, and Welfare; Division of Nursing

How to receive federal assistance through the Nursing Student Loan Program. 1972.

Nursing Scholarship Program Career Information — U.S. Department of Health, Education, and Welfare; Division of Nursing

Particulars about federal assistance through the Nursing Scholarship Program.

Scholarships and Fellowships — The National Scholarship Trust Fund

Offers a broad program of scholarship and fellowship aid to talented young men and women preparing for careers in graphic communications.

Scholarships and Loans — Registry of Medical Technologists*

General information and scholarship listings by state. 6 pp. 5 cents.

Scholarships, Fellowships, and Loans — S. Norman Feingold. Bellman Publishing Company

Names and addresses, qualifications required, funds available, special fields of interest and information, and where to apply. Includes general counseling information and a good bibliography. Volume V 1972. $17.

Scholarships, Fellowships and Loans News Service — Bellman Publishing Company

A periodical, issued four times yearly, announcing new programs and serving as a national clearinghouse of information on student aid and research. $20 per year.

Scholarships, Fellowships, Educational Grants, and Loans for Registered Nurses — National League for Nursing, Inc.

Lists national sources of financial assistance for students preparing to become registered nurses or licensed practical nurses and available general education loans and scholarships. Revised 1973. 8 pp. 25 cents.

The Shell Companies Foundation 1973 Budget — The Shell Companies Foundation, Inc.

A review of the Shell Foundation's programs, including Shell Merit Scholarships for students planning careers as teachers of precollege science or mathematics, Shell Achievement Scholarships for Black students planning careers in business or technical fields, and Shell Incentive Funds for outstanding students belonging to ethnic minorities pursuing courses of undergraduate study leading to the bachelor degree in business or technical fields.

The Society of Exploration Geophysicists Foundation Scholarship Program — The Society of Exploration Geophysicists

Scholarships are available to those engaged or interested in the field of geophysics at any recognized college or university in the United States or its possessions which offers courses of study in geophysics or a closely related field. High school students planning to enter college the next fall term, undergraduate college students, or graduate college students whose studies are directed toward a career in exploration geophysics in operations, teaching, or research are eligible. Students must be in need of financial assistance. Applications must be received by March 1 of the year in which the award is to be made. For application forms and further information contact The Society of Exploration Geophysicists.

Special Health Opportunity Grants — U.S. Department of Health, Education, and Welfare

Comprehensive information about the program — those who are eligible and kinds of funds which are available. 1972. 8 p.

Student Aid Planning in the Space Age: A Selected Bibliography — B'nai B'rith Career and Counseling Services

Growth of college enrollment, student aid planning today, rise of student costs and role of colleges and universities as primary sources of student aid are discussed. Financial aid resources such as federal aid programs, state educational loans, social security benefits, armed forces, organizations and other agencies are detailed. Selected bibliography with special information for disadvantaged and minority youth is included. 1971. 14 pp. 50 cents.

You Can Win A Scholarship — Barron's Educational Series, Inc.

A comprehensive guide as to where and how to apply for financial aid and how and what to study for scholarship examinations. Includes descriptions of and hints for taking the well-known exams, plus a section on preparing for the scholarship exams — 500 pages of intensive review. Revised 1972. $4.95 paper. $9.95 cloth.

Toward Health Manpower Opportunity — U.S. Department of Health, Education, and Welfare

Background on the need for improving the representation of minority groups in the health professions and achieving a better geographic balance of health professionals. Details about the goals of the Inter-Association on Expanding Educational Opportunities in Medicine for Blacks and Other Minority Students and grants available from the federal Health Manpower Education Initiative Awards Program. 1973. 12 pp. Order from Government Printing Office.

Tuition Scholarships for Dental Assistant Education — American Dental Assistants Association

Leaflet giving rules and eligibility regulations for tuition scholarships available through the Juliette A. Southard Scholarship Trust Fund.

The Harvey W. Wiley Scholarship Award — Association of Official Analytical Chemists

An annual scholarship of $500 for each of 2 years is made to an undergraduate college student majoring in a subject of concern to the AOAC. Any interested person may nominate candidates. Six copies of the nomination letter should include name, age, and home address of student; name and address of institution where he will study; his educational record and occupational experience, general statement of financial status of student and family, field of major interest, character reference by two individuals, and an evaluation by the sponsor. Send them to the Association of Official Analytical Chemists Executive Secretary before May 1st of the year the award is to be made.

SUMMER PROGRAMS FOR STUDENTS

Sponsors are currently expanding the number of work and study programs scheduled for students during the summer months. Students with pronounced abilities in science seem to be stimulated by special study and work experience and thus gain additional interest in science and science-related careers. The programs listed here are representative of additional work-training and apprentice activities that are available in communities or local regions.

Summer Research Training Program for Secondary School Biology Students — Assistant Director (Training). The Jackson Laboratory

Room and board for a nine-week course, approximately $600. Tuition free. Limited to 28 eleventh-grade students who have completed at least one course in biology and achieved superior grades in science. Introduces promising students to nature and objectives of biomedical research.

Teen-Age Summer Guide — Barron's Educational Series

Information about sports, study, travel, and jobs for young people. 1969 edition. $2.95.

Pharmacy Student Summer Internship Program — The Upjohn Company

Each summer one or two pharmacy juniors are chosen to work with the Upjohn Company for 12 weeks. During this period they work in production, research, and marketing areas to gain insight into the whole spectrum of career possibilities.

AWARD PROGRAMS FOR STUDENTS

A number of programs varying in design have been developed at local, regional, and national levels to provide incentives and awards for science students. Because of their number, it is not practical to attempt a listing of such programs except those offered on a nationwide scale, as described here. Teachers are encouraged to search out appropriate activities which provide incentives for students.

American Pathology — Medical Technology Award at Science Fair International — The Intersociety Committee on Pathology Information, Inc., and National Committee for Careers in the Medical Laboratory

Contact the Intersociety Committee on Pathology Information, Inc., for further information and application forms.

Annual SAMA-Eaton Medical Art Awards 1974 — Student American Medical Association

The Student American Medical Association and Eaton Laboratories, Division of Morton-Norwich Products, Inc., offer national recognition to anyone in the health care field with an interest and talent in graphics. The SAMA-Eaton Medical Art Award Competition sponsors will present cash prizes and plaques to first, second, and third prize winners in medical photography, medical illustration, and photoessay. First and second prizes in photomicrography and a first prize in electron photomicrography will be presented. Professional photographers and artists will compete separately from all others. Prize winning entries will be incorporated into the Medical Art Gallery and Album. Deadlines for entries January 15, 1974.

Bausch & Lomb Science Award Medal — Science Award Committee. Bausch & Lomb

Bronze medal is provided for the outstanding science student and an opportunity to compete for the science scholarships at the University of Rochester, having total four-year values up to $18,000 based on financial need. Limited to graduating seniors of accredited high schools.

International Science and Engineering Fair — Science Service

Awards in the form of scientific equipment, summer jobs in science research labs, trips to science facilities; medals for each finalist. Students in the 9th, 10th, 11th, and 12th grades who have participated in a regional science fair affiliated with the International Science and Engineering Fair may participate. Sponsored by Science Service in cooperation with local educational, scientific, and journalistic organizations.

SAMA-Squibb Scientific Exhibit Awards — Student American Medical Association

The SAMA-Squibb Scientific Exhibit offers medical students, interns, and residents the opportunity to win recognition not only among their colleagues but within the nationwide medical community as well. The judging is based upon the ability of the exhibitor to effectively communicate medical and scientific information rather than an elaborate and expensive exhibit construction. Cash awards are presented to finalists who exhibit at the UTMB Research Forum and the AMA Scientific Assembly. The program is sponsored by a grant from E.R. Squibb & Sons.

Vocational Industrial Clubs of America United States Skill Olympics — Vocational Industrial Clubs of America

A competitive activities program for trade, industrial, technical and health occupations education students who are members of the Vocational Industrial Clubs of America, Incorporated. Applicants must win first place recognition in a VICA state skill competition to be eligible. Leadership development contests encompass Club Business Procedure, Display, Extemporaneous Speaking, Job Interview, Opening & Closing Ceremonies Demonstration, Outstanding Club, Prepared Speech and Safety. Skill contests include: Air Conditioning & Refrigeration, Architectural Drafting, Auto Body, Auto Mechanics, Bricklaying, Carpentry, Commercial Art, Commercial Food Trades, Health Occupations, Industrial Electronics, Machine Drafting, Machine Shop, Offset Printing, Radio & TV Repair, Sheet Metal, Metal-Arc Welding, and Mig & Tig Welding. First place secondary and post-secondary winners receive a gold VICA U.S. Skill Olympics medallion; second place winners receive silver medallions and third place winners receive bronze medallions. Each winner will take home a medallion for his school. For more details, contact: Vocational Industrial Clubs of America.

Science Talent Search for Westinghouse Science Scholarships and Awards — Science Service

Provides $67,500 in scholarships and awards, and 40 all-expense trips to a 5-day Science Talent Institute in Washington, D.C. Additional awards in 42 State Science Talent Searches. Limited to graduating high school seniors. Participation features a 1,000-word report on a science research project by the student. Sponsored jointly by Westinghouse Educational Foundation and Science Service. Deadline each year December 15; request materials prior to November 1.

SPECIAL PROGRAMS FOR STUDENTS

Many national, regional, state, and local groups sponsor programs for science students.

CAP-SAMA Pathology Fellowship Program — Student American Medical Association

The College of American Pathologists and the Student American Medical Association sponsor a cooperative program to provide fellowships in pathology to medical students. This is a pilot project for medical students from the sophomore year or later to give the student additional experience in the many disciplines of pathology. These fellowships will allow students to spend vacation periods or elective time in pathology departments throughout the country studying special aspects of the field or pursuing specific interests.

Electronic Industries Association

A Service Technician Development Program which consists of textbooks and training aids, summer seminars, and career guidance material has been designed to introduce and interest young people in a career as a consumer electronics service technician.

Future Scientists of America— National Science Teachers Association

The Future Scientists of America school science club program, for students in grades 5-12, is organized to give interested students an opportunity to meet together and benefit from the common sharing of the scientific interests and abilities of their fellow club members. For more information write to NSTA.

Graphic Arts Technical Foundation

Career Programs: Members of the Foundation staff regularly assist local school districts in the presentation of career programs in graphic communications. This assistance involves aid in planning the program, making materials available, and/or visits to the schools to engage in direct discussions with students.
Specially Designed Programs: The Foundation will design and present programs to meet the specific needs of member firms and/or other organizations. For example, each year, a national competition sponsored by Champion Papers brings a number of graphic design students to the Foundation for an intensive two-week orientation in graphic communications technology. Highlighting the program is a group design project, the production of which is overseen by the students themselves.

International Medical Programs for American Medical Students — Student American Medical Association

Thorough breakdown of information for each entry includes administrating agency, funding agency, countries involved, duration of experience, required number of students allowable, times of the year, cost, financial aid, nature of experience, academic credit, eligibility requirements, application deadline, length of time program is anticipated to continue, and contacts for further information. For information, contact National Exchange Officer, Student American Medical Association in Illinois. 1973. 59 pp. 50 cents.

JETS, Inc. (Junior Engineering Technical Society)

Various aids for students, teachers, and practicing engineers and scientists who wish to organize or sponsor JETS clubs. Appropriate for both secondary school and junior college students, *JETS Journal*, $2.50 a year to students, $3.50 to nonstudents (September-May) features engineering and science news, career information, and project ideas for students.

Junior Academies of Science — Local Academies or the American Association for the Advancement of Science

Sponsored by State Academies of Science in some 42 states, the Junior Academies provide such activities as training through cooperative endeavors, discussions with other young people and with adult scientists, opportunities to take part in student and adult scientific projects, participation in science fairs, laboratory visits, and awards for performance in science reporting both on the state and national levels.

Medical Student How to Go Abroad — International Federation of Medical Student Associations

A yearly publication which includes information about medical clerkships in different countries of the world available on an exchange basis through the Exchange Program of the International Federation of Medical Student Associations.

The National Junior Horticultural Association

Promotes and sponsors an educational program of projects and activities for youth that relate to a better understanding of the operations involved in the production, handling, marketing, processing, storage, and use of horticultural plants and related products.

The New Guide to Study Abroad — Harper & Row

A guide to hundreds of summer, full-time, degree, work-study overseas study programs available to faculty and students by John A. Garraty, Walter Adams, and Cyril J. H. Taylor. 1974. 476 pp. $9.95, $2.25 paper.

SAMA International Exchange Program — Student American Medical Association

The Student American Medical Asssociation as the International Federation of Medical Student Association's U.S. representative, offers externships abroad to qualified medical students. The placement fee is $35. Most countries will accept students with clinical experience; some also will take students in the basic science years. Some countries require fluency in a foreign language.

Most programs offer room, some room and board, and a few stipends to U.S. externs. Most countries demand a minimum of 3 months time to arrange the placement. Australia, Austria, Belgium, Congo, Costa Rica, Czechoslovakia, Denmark, Egypt, Finland, France, Germany, Ghana, Greece, Hong Kong, Iceland, India, Ireland, Israel, Italy, Japan, Luxembourg, Lebanon, Malta, Netherlands, Nigeria, Norway, Poland, Rhodesia, South Africa, Spain, Sudan, Sweden, Switzerland, Tunisia, United Kingdom, and Yugoslavia offer some type of exchange. For information, contact National Exchange Officer, Student American Medical Association in Illinois.

Science Training Programs for High-Ability Secondary School Students

A list of participating institutions is issued to all secondary schools annually by the National Science Foundation in January. Students interested in these programs should make application to the director of the specific program rather than to the National Science Foundation. The list is available from the Foundation. Some programs provide research projects in which students work with experienced scientific investigators. Other programs are designed to present courses of study not offered in regular high school work or college courses.

Traveling Lecture Program — Oak Ridge Associated Universities

Campus visits by Oak Ridge and Savannah River scientists for lecture, seminar, and colloquium presentations.

Undergraduate Research Training — Oak Ridge Associated Universities

Ten-week appointments for college juniors, primarily during the summer, for independent study and research on problems in the physical, biological, and environmental sciences, engineering, and mathematics.

AWARDS, SCHOLARSHIPS, FELLOWSHIPS, & OTHER PROGRAMS FOR TEACHERS

Industries, universities, scientific societies, governmental agencies, and other groups are sponsoring increasing numbers of programs which recognize and stimulate the teacher's role in interesting young people in careers in science and its related fields. In addition to the representative examples listed here, newspapers and professional journals announce new opportunities.

American Anthropological Association

Newsletter ($5 per year) published monthly, except July and August, gives timely news of developments, events, and meetings in the field of anthropology.

American Chemical Society Award in Chemical Education — Sponsored by the Scientific Apparatus Makers Association

Outstanding teaching, organization, administration, writing, and research are among the activities recognized by this award. Candidates must be nominated by ACS members.

American Students and Teachers Abroad — Institute of International Studies, U.S. Office of Education

Sources of information about overseas study, teaching, work, and travel. Order from Government Printing Office, 1972. 38 pp. 45 cents.

The James Bryant Conant Award in High School Chemistry Teaching — Sponsored by E.I. du Pont de Nemours & Company

Six regional awards recognize, encourage, and stimulate outstanding teachers of high school chemistry in the United States, its possessions, or territories. Candidates must be nominated by chapters of the ACS.

Faculty Research Participation — Oak Ridge Associated Universities

Summer appointments and short-term visits during the academic year for special experiments using nuclear-research facilities at Atomic Energy Commission laboratories in Oak Ridge, Puerto Rico, and Savannah River, and at National Bureau of Standards.

Fellowships for Established Faculty Members — Fellowships Section, U.S. Office of Education

Fellowships are available to established faculty members in higher education to engage in research, curriculum development, and/or instructional materials preparation or acquisition related to foreign language or area studies.

Foreign Exchange Teaching — For elementary and secondary school teachers, college instructors, and assistant professors in elementary and secondary schools and in two-year post-secondary institutions; Teacher Exchange Section, U.S. Office of Education. For teaching in American-sponsored or supported schools abroad or in schools serving international communities abroad, write to the International Schools Services. For university teaching, lecturing, or post-doctoral research: Committee on the International Exchange of Persons.

Opportunities to teach in foreign countries, with travel, subsistence, and salaries sufficient to maintain the standard of living of teachers resident in that country. Sponsored by the U.S. Government.

Laboratory Graduate Participation — Oak Ridge Associated Universities

Opportunities for master's and doctoral degree candidates to conduct graduate thesis or dissertation research in established programs at Atomic Energy Commission and other approved laboratories.

National Center for Information on Careers in Education

Research and resource center for individuals and groups interested in careers in education or in recruiting within an educational program.

The National Education Association Overseas Teach Corps Program — Committee on International Relations

Sends skilled and experienced educators as volunteers to live and work with educators of developing countries in cooperation with the U.S. Agency for International Development.

National Science Teachers Association

Devoted to initiation, development, promotion, and reporting of continuing teaching at any level, elementary through graduate school. In addition to professional publications for teachers and a member newsletter, the Association publishes the periodicals *The Science Teacher, Science and Children*, and the *Journal of College Science Teaching*.

Oak Ridge Associated Universities — General Information Bulletin

An outline of the wide variety of educational, research, and training programs carried out by this nonprofit corporation of southern universities and colleges. Includes data on fellowships, institutes for high school and college science teachers, and research participation.

Overseas Schools for Dependents of Military and Civilian Personnel — Director for Dependents' Education

Overall direction of these schools, including the recruitment and placement of teaching personnel, is the responsibility of the Department of Defense. For information about other American-sponsored or supported schools abroad or about schools serving international communities, write to the International Schools Services.

Professional Work-Study Program — Graphic Arts Technical Foundation

Allows educators with experience in both education and industry to join the GATF staff for periods of up to one year. While on the staff, the teacher works on projects of an educational nature and takes full part in the planning and management of the Foundation's education efforts. The work-study program is now in its second year.

Science Service

Provides publications and other materials and services of interest to science teachers.

Summer Professor Program — The Upjohn Company

Each summer one faculty member from a U.S. pharmacy school is chosen to work with the corporation's Pharmacy Research Group. Normally the work during this period is marked by a paper with the visiting professor as the senior author.

Summer Seminars for Vocational Industrial Arts Teachers — Sponsored by the Consumer Electronics Group of the Electronic Industries Association

Designed for high school or vocational/technical instructors who may wish to include consumer product servicing in their curriculum. Emphasis is placed on how to diagnose and repair consumer electronic products. The sessions include studies of solid-state circuitry and the use of the industries' latest product and test equipment.

Teacher Awards Programs: An Investment in Excellence — Manufacturing Chemists Association

High School Awards will include one national award of $1,000, medal and citation and regional awards of $200, medal and citation.

College Awards will include awards of $1,000, medal and citation to college professors of chemistry or chemical engineering (including a two year college professor) and regional awards of $200 and citation to two year college professors. Eligibility for both the national and regional high school awards has been extended to any high school chemistry teacher in the United States or Canada.

UNESCO Technical Assistance Program — International Organizations Recruitment, U.S. Office of Education

The Office of Education refers highly experienced and specialized advisers in education, science, and technology as candidates for posts in the UNESCO technical assistance program in developing countries. Normal requirements include at least 5 to 10 years of teaching and/or administrative experience at the college or university level and an advanced academic degree.

U.S. Office of Education Programs Abroad — Institute of International Studies, U.S. Office of Education

Reprint from the Fall 1972 issue of "Exchange," the quarterly magazine of the U.S. Advisory Commission on International Educational and Cultural Affairs.

AGENCIES PROVIDING SPECIAL SERVICES OR SUPPORT IN SCIENCE & TECHNOLOGY

American Association for the Advancement of Science

The Association provides small grants for affiliated state and regional academies of science, which the academies in turn usually assign to high school and college students for research projects. Applications by students should be made to their state academy of science. The Commission on Science Education publishes annually a bibliography of more than 3,000 books and articles on topics relating science to society. The publication is called *Science for Society: A Bibliography*. Copies are available at $1.00 per copy, or 75 cents for 10 copies or more.

The Commission also publishes *Science Education News* six times a year. Four issues are devoted to short references on educational innovatons and publications, usually related to science/society concerns. The other two issues contain longer reports, each of which is related to a central theme. Names are added to the mailing list upon request.

American Personnel and Guidance Association

Inform — provides up-to-date information on sources of current career information.

Career Resource Bibliography which accompanies *Inform* lists career resources for specific occupational clusters. 10 issues per year, August through May. Subscription rate for both to APGA members $15; to nonmembers $25. Single copy 75 cents.

B'nai B'rith Career and Counseling Services

A "Starter" File of Free Occupational Literature: Materials listed in the "File" can be used to organize a cost-free, selective occupational library. The selection criterion was based on the career interests and needs of persons between the ages of 15-20, holding middle-class values and oriented toward a nonrural life who were actually counseled. For each of the 103 careers, the *Dictionary of Occupational Titles* code number, pamphlet title, year of publication, and name and address of publishing organization are included. These 103 pamphlets can be used to initially explore approximately 500 careers. In the index, the occupational titles of these related careers are cross-referenced with the 103 job titles listed in the main body of the paper. 1970. 29 pp. $1.25. A catalog listing a wide range of publications on careers, guidance techniques and administration, counseling theory, and research is available. Revised annually.

The Career Education Project

The goal of the Career Education Project is essentially to develop and test an innovative program of career counseling for people over sixteen who are not currently working full-time or attending school on a full-time basis, or actively seeking full-time work. A free telephone counseling service to Rhode Island adults has been designed to assist young people out of school who are unsure of future plans and women at home who may be considering career training.

A Resource Center, the information base of the Project, was established for use by staff, clients, and representatives of local educational institutions. As a research and development program, all phases of the Project's career counseling process are now being studied and evaluated by the Project's research team so that the program may be replicated elsewhere in the country at minimal cost.

Careers (Largo, Florida)

Science Careers Kit: Contains over 120 Career Briefs and Summaries. Typical titles include Botanist, Electrical Engineer, Ichthyologist, Oceanographer. Designed to be used by students in exploring science-related occupations whether on a professional or technical level. $37.20, f.o.b. Largo, including a one year's subscription to the Science Careers Service. After the first year, subscription price of the Service is $6.45 per year.

Industrial Careers Kit: Contains 150 industrial semiskilled, skilled, and technical Career Briefs and Summaries. $45 f.o.b. Largo. After first year, subscription price of the Service is $8.10 per year.

Health Careers Kit: Contains over 120 Career Pamphlets on skilled, technical, professional, and semiprofessional health careers. $37.20, f.o.b. Largo. After the first year, subscription price of the Service is $6.45 per year.

Desk-Top Kit: Designed to be kept on a counselor's or teacher's desk for pupil conferences. The Kit contains over 1,000 different career pamphlets which consist of eight-page briefs, two-page career summaries, college and training guides, job guides, and reprints of career articles taken from technical, business, and professional magazines,

filed according to current *Dictionary of Occupational Titles* classifications. $123, f.o.b. Largo. One year's subscription to the Career Guidance Service to keep the Kit up to date is included in the purchase price. After the first year, the subscription price of Career Guidance Service is $43.20 per year.

The kits are collated and ready for instant use. Titles filed alphabetically. Complete cross-reference index. Each Brief or Summary gives information on salaries, outlook, educational requirements, and where to get further information on the career. A year's subscription to the Science Careers Service (mailed three times a year) is included in the price of the kit.

Chronicle Guidance Publications

Occupational Library: This is a "Library of Occupational Information" based on the *Dictionary of Occupational Titles* (current third edition) which is used universally by government employment services and publishers of career information. Directions and outline cards enable students to use the Library quickly and easily. The Library includes large posters, counseling aids, and up-to-date reading references. 671M Occupational Library. $179.

671PSH Same as 671M but housed in a mobile tan or gray steel file cabinet with hanging folders tabbed with codes and titles of the *D.O.T.* Tan or gray cabinet. $342.50.

Professional File: For counselor's or administrator's use, based on an alphabetical arrangement within 15 major divisions. Over 200 printed folders. $29.50. Professional Service: Published monthly, September-April. Includes new and revised occupational briefs, professional articles, and educational information. $48.50.

3-in-1 Guidance Service: Published monthly, September-April. Includes new and revised occupational briefs, professional articles, and educational information. $48.50.

Career Index: Contains up-to-date sources of information on occupations, education, and counselor concerns. Published annually with four supplements. $11.

Educational Service: A series of books providing students with information needed to make college selections. $22.50 per year includes the following items: Student Aid Bulletins, $2; Student Aid Annual, $7.50; Guide to College Majors, $4.50; College Charts (tables), $4.50; Summary Report, colleges still accepting applications April 15, $1.

Occupational Briefs: 4-page descriptions of a wide range of careers. Most are 35 cents each; some are 50 cents. A complete set (over 475 titles) is $82.50 unbound, $87.50 bound. Sample titles: Astronomer, Civil Engineer, Geophysicist, Metallurgical Engineer, Pharmacist, Soil Conservationist. Write for complete listing.

Reprints from trade magazines: With a few exceptions, these are 35 cents each. Complete sets of about a hundred articles, $20. Write for complete listing.

Educational Properties Incorporated

Educational Properties Incorporated publishes the *Career Education Digest* 12 times yearly. Subscription, $10/year. $1.50, single copies. Offers a *Career Education*

Model–Kindergarten through Adult which states the specific goals of career education, the means of achieving those goals by grade level; states the fifteen career clusters as suggested by the United States Office of Education. Chart 28 × 22". $1.95.

Engineers Joint Council

Learning Resources is a directory for engineers, scientists, managers, and educators. It contains descriptive information about courses, seminars, conferences, workshops, and other continuing education activities in the USA and Canada. Cross-indexed by subject for easy reference. Updated and issued three times a year. $24 for year subscription or $10 each.

Home Study Program in Arboriculture — National Arborist Association

Designed to offer professional arborists and their staff members an effective, yet economical means of acquiring valuable technical and professional expertise.

National Aeronautics and Space Administration

Students, teachers, and counselors can obtain advice on careers in aerospace through the NASA Counseling and Career Guidance Services.

National Science Foundation

Established by Congress in 1950, the Foundation promotes scientific progress through the support of research and education in the sciences.

National Speleological Society

The Society has appointed a Committee on Educational Opportunities in Speleology which offers a mimeographed handout of coursework available in speleology. Small stipends for research in the sciences are available through their Research Advisory Committee.

National Vocational Guidance Association

NVGA is a division of the American Personnel and Guidance Association. It strives to establish a concept of vocational development and guidance to help people. Publishes the *NVGA Bibliography of Current Career Information* and the *Vocational Guidance Quarterly*.

Science Research Associates, Inc.

Career Information Kit, Grades 9-14: A.H. Edgerton, Professor of Education at the University of Wisconsin, has compiled a library of materials which have been classified into specific job fields as well as general categories. There are references to

further information that is available, and new materials can be added at any time to this collection. A two-drawer metal file on wheels $349, corrugated case, $246 net.

Handbook of Job Facts, Grades 10-12: Current information on duties, educational requirements, and future outlook for 300 occupations. $5.75 net.

Occupational Briefs: Each brief describes a specific occupation thoroughly, including qualifications, training required, and opportunities for advancement. Many scientific careers are included. 4 pp. 49 cents each net.

Widening Occupational Roles Kit (WORK) Program, Grades 6-9. A kit allowing each student to explore many areas of career opportunity. It helps the student to expand his knowledge of the working world, related jobs, and his own abilities and interests; to learn more about the education he will need for various occupations. The kit includes 340 WORK briefs (job descriptions in fictional narrative); two color filmstrips with cassettes, offering a realistic introduction to the world of work; a colorful occupational scanner that helps the student relate his own general interests, abilities, and educational plans to career opportunities; a copy of *Handbook of Job Facts;* and five illustrated booklets for supplementary reading. $180 net.

Keys — Career Exploration Program, Grades 6 - Adult. "Scientific Interests" Filmstrip and Cassette. The filmstrip shows actual on-the-job interviews, all carefully selected to show the variety of careers in science at different education levels. $8.50 net. The cassette presents workers speaking candidly about their jobs: They discuss the pros and cons of their work, how they entered and advanced in their careers and how students can explore the field. $8.50 net.

Occupational Exploration Kit, Grades 9-12. A kit that permits each student to explore a wide variety of occupations in terms of his own abilities, achievements, objectives, and interests, and in terms of the amount of education required. Each of 400 occupational briefs provides a thorough, up-to-date description of individual jobs, including qualifications and training, earnings, outlook, suggestions for getting started and advancing in the work, and selected references. Seventeen Job Family Booklets, 8 Guidance Series Booklets are included. A special coding device helps the individual student focus on relevant career information in an easy-to-use system, personalizing the kit for each student. $123 net.

Scientific Manpower Commission

The Commission is a nonprofit corporation concerned broadly with the recruitment, training, and utilization of scientists. It disseminates information about significant developments affecting scientific manpower to its sponsoring societies and to other agencies and groups concerned with scientific manpower.

Vocational Guidance Manuals

Publishes various manuals on the career opportunities in science fields: Biological Sciences, Chemical Sciences, Dentistry, Forestry, Geology, Medical Technology, Oceanography, Optometry and Optics, Opticianry, Podiatry, Pharmacy, Osteopathic Medicine, Mathematics, Technical Writing, Engineering manuals: Agricultural Engineering, Chemical Engineering, Electrical Engineering, Traffic Engineering. $1.95 paper, $3.75 cloth. Also, Opportunities in Environmental Careers, $5.75, Meteorology, $5.50, Materials Science & Engineering, $4.50, and Veterinary Medicine, $4.50. Write for complete listing.

ADDRESSES

Acoustical Society of America
335 East 45th Street
New York, NY 10017

Air Transport Association of America
1709 New York Avenue, NW
Washington, DC 20006

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